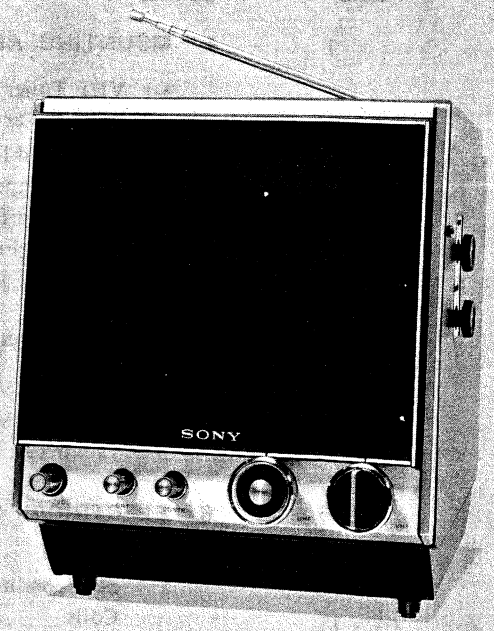
ISO

*Set using ISO screws*

# TV-940/900UA




## SPECIFICATIONS

**Picture tube:** 8″ (measured diagonally)
90° deflection

**Semiconductors:** 25 transistors, 15 diodes, 3 thermistors and 1 high voltage selenium rectifier

**Channel coverage:** VHF; ch. 2 – 13
UHF; ch. 14 – 83

**Antenna system:** VHF; 75-ohm unbalanced; built-in telescopic antenna
300-ohm balanced; external antenna
UHF; 300-ohm balanced; loop antenna and external antenna

**IF circuit system:** 3 stages with 1 double tuned and 3 single tuned elements

**Intermediate frequency:** Picture i-f carrier; 45.75 MHz
Sound i-f carrier; 41.25 MHz

**Sound system:** 4.5 MHz intercarrier system
Power output; 300 mW
Harmonic distortion; less than 10 %
Speaker; 4″ x 2-5/8″, 40 ohm impedance

**Jack:** Earphone jack 2 pcs, 8 ohms 300 mV

**Automatic controls:** Pulse agc
Forward agc
Single-pulse afc

**Power requirements:** AC 120 V 60 Hz (chassis No. SMC-157)
AC 120 V/220 V 60/50 Hz
(chassis No. SMC-160□)
DC 12 V

**Power consumption:** AC 23 W
DC 15 W

**Dimensions:** 9-1/16″(W) x 10-1/2″(H) x 10-13/16″(D)
(230 mm x 267 mm x 275 mm)

**Weight:** 11 lb 7 oz (5.2 kg)

SONY®

SERVICE MANUAL

## TABLE OF CONTENTS


| Section | Title | Page |
|---|---|---|
| | Specifications | 1 |
| **1.** | **OUTLINE** | |
| | 1-1. Block Diagram | 3 |
| | 1-2. External View | 4 |
| | 1-3. Internal View | 5 |
| **2.** | **DISASSEMBLY** | |
| | 2-1. Rear Cabinet Removal | 6 |
| | 2-2. BF Circuit Board Removal | 6 |
| | 2-3. Speaker Removal | 7 |
| | 2-4. VHF Tuner Removal | 9 |
| | 2-5. UHF Tuner Removal | 9 |
| | 2-6. Protector Removal | 10 |
| | 2-7. Picture Tube Removal | 10 |
| **3.** | **CIRCUIT ADJUSTMENTS** | |
| | 3-1. VIF Adjustments | 11 |
| | 3-2. SIF Adjustments | 14 |
| | 3-3. Deflection Circuit Adjustments | 15 |
| **4.** | **MOUNTING AND SCHEMATIC DIAGRAMS** | |
| | 4-1. VHF Tuner Schematic Diagram | 18 |
| | 4-2. VHF Tuner Mounting Diagram | 18 |
| | 4-3. Signal and Deflection Circuit Board (BF) – Component Side – | 19 |
| | 4-4. Signal and Deflection Circuit Board (BF) – Conductor Side – | 21 |
| | 4-5. Schematic Diagram | 23 |
| **5.** | **EXPLODED VIEW AND PACKING** | |
| | 5-1. Exploded View (1) – Front Cabinet – | 25 |
| | 5-2. Exploded View (2) – Rear Cabinet – | 27 |
| | 5-3. Packing | 28 |
| **6.** | **ELECTRICAL PARTS LIST** | |
| | General | 29 |
| | Semiconductors | 29 |
| | Coils | 29 |
| | Transformers | 30 |
| | Capacitors | 30 |
| | Resistors | 31 |
| | Miscellaneous | 33 |

SONY CORPORATION

# COMPLETE SPARE PARTS LIST CHANGE NOTICE

**MODEL** TV-940/900UA

(Production change, ~~correction, addition, deletion~~)
is done onto this parts list.
Replace the former copy with this new one. Refer to this parts list when you order the service parts.

SONY®

# Complete Spare Parts List

## Model TV-940/900UA

Revised

"IMPORTANT"

When ordering parts, please do not fail to furnish us the following:

1. Part Number
2. Model Name
3. Description as mentioned in this parts list

We are now using EDPS (Electronic Data Processing System) in all the departments concerned, for procurement, inventory control, packing, warehousing, etc. Your orders are processed mainly from the PART NUMBERS referred by you. Incorrect part numbers, therefore, will result in incorrect parts shipment. To assure prompt shipment of correct parts, your cooperation will be appreciated.

NOTE:

Prices are subject to change without notice.

SONY CORPORATION

# COMPLETE SPARE PARTS LIST FOR TV-900UA/940

JANUARY, 1972

| Part No. | Description | Unit Price |
|---|---|---|
| | I. MECHANICAL PARTS | |
| X-40074-05 | Mounting Bracket Ass'y, picture tube | $0.04 |
| X-40170-01 | Cabinet Ass'y, front | 1.36 |
| X-40170-02 | Cabinet Ass'y, rear | 1.22 |
| X-40170-03 | Knob Ass'y, VHF channel selector | 0.23 |
| X-40170-04 | Knob Ass'y, fine tuning | 0.15 |
| X-40170-05 | Knob Ass'y, UHF dial | 0.22 |
| X-40170-06 | UHF Dial Ass'y | 0.19 |
| X-40170-07 | Knob Ass'y, PULL ON/OFF control | 0.12 |
| X-40170-08 | Cover Ass'y, carrying handle | 0.07 |
| X-43020-10 | Knob Ass'y, BRT & CONTR control | 0.19 |
| 2-825-006 | Mica Spacer | 0.01 |
| 2-832-003 | Bushing, F2 | 0.01 |
| 3-410-032 | Clamp, cord | 0.02 |
| 3-811-132 | Spring, UHF dial knob | 0.01 |
| 4-001-084 | Spring, UHF dial | 0.01 |
| 4-003-220 | Grounding Spring, picture tube | 0.02 |
| 4-003-250 | Spring, fine tuning knob | 0.02 |
| 4-004-143 | Label, serial number | 0.02 |
| 4-004-201 | Fiber Washer, BF board | 0.01 |
| 4-005-538 | Caution Label, picture tube | 0.04 |
| 4-005-551 | Reinforcement, BF board | 0.01 |
| 4-005-557 | Cushion, printed circuit board | 0.02 |
| 4-006-255 | Terminal Pin | 0.01 |
| 4-007-075 | Cushion, picture tube | 0.02 |
| 4-008-017 | Spring, channel selector knob | 0.02 |
| 4-008-448 | Heat Sink, horizontal output transistor | 0.03 |
| 4-009-533-02S | Terminal Knob, antenna | 0.03 |
| 4-009-535-12S | Screw, antenna | 0.03 |
| 4-009-537 | SIF Shield Cover, lower side | 0.02 |
| 4-009-538 | SIF Fiber Cover | 0.02 |
| 4-009-705 | Panel, upper | 0.08 |
| 4-009-706 | Rubber Foot | 0.01 |
| 4-009-707 | Retaining Plate, protector | 0.02 |
| 4-009-733 | Retaining Spring, speaker | 0.02 |
| 4-009-735 | Clamp, electrolytic capacitor | 0.01 |

| Part No. | Description | Unit Price |
|---|---|---|
| 4-010-012 | Cylindrical Shield, micro inductor | $0.03 |
| 4-010-018 | Spring Washer, 14 $\phi$ | 0.01 |
| 4-010-019 | Nut, 14 $\phi$ | 0.02 |
| 4-010-033 | Label, certification | 0.02 |
| 4-010-506 | VIF Shield Cover, lower side | 0.01 |
| 4-010-507 | VIF Fiber Cover, upper side | 0.01 |
| 4-010-719-11 | Control Knob | 0.02 |
| 4-010-812 | VIF Shield Cover, upper side | 0.03 |
| 4-010-821 | Caution Label, high voltage | 0.01 |
| 4-011-437 | Heat Sink, diode SB-2 | 0.03 |
| 4-011-462 | Spacer, transistor | 0.01 |
| 4-011-923 | Support, high voltage selenium rectifier | 0.07 |
| 4-011-924 | Cap, high voltage selenium rectifier | 0.02 |
| 4-011-925 | SIF Shield Cover, upper side | 0.02 |
| 4-011-928 | Terminal Cover, high voltage | 0.01 |
| 4-011-929 | Reinforcement, printed circuit board | 0.01 |
| 4-011-930 | Mounting Wire Ring, picture tube | 0.06 |
| 4-011-932 | Spacer, high voltage selenium rectifier | 0.01 |
| 4-015-514 | Label, fuse (0.3 A) | 0.01 |
| 4-017-002 | Escutcheon, right | 0.17 |
| 4-017-003 | Escutcheon, left | 0.17 |
| 4-017-005 | Anchor, cord | 0.02 |
| 4-017-041 | Protector, picture tube | 0.42 |
| 4-017-042 | Holder, protector | 0.08 |
| 4-017-043 | Carrying Handle | 0.17 |
| 4-017-044 | Mounting Bracket, vhf tuner | 0.07 |
| 4-017-045 | Mounting Bracket, adjustable resistor | 0.07 |
| 4-017-046 | Supporting Plate, printed circuit board; left | 0.09 |
| 4-017-047 | Supporting Plate, printed circuit board; right | 0.04 |
| 4-017-048 | Heat Sink, vertical output transistor | 0.10 |
| 4-017-049 | Mounting Plate, 4 P plug | 0.04 |
| 4-017-050 | Shaft, carrying handle | 0.02 |
| 4-017-051 | Height Label | 0.01 |
| 4-017-052 | Vertical Line Label | 0.01 |
| 4-017-053 | Holder, cord clamp | 0.01 |
| 4-017-054 | Holder, flyback transformer | 0.02 |
| 4-017-055 | Reinforcement, printed circuit board; VIF side | 0.01 |
| 4-017-056 | Reinforcement, printed circuit board; upper side | 0.05 |
| 4-017-057 | Front Panel | 0.17 |
| 4-017-064 | Spacer, insulator | 0.01 |
| 4-302-110 | Spring, knob | 0.01 |
| 4-017-082 | Specification Label (120 V) (Chassis No. SMC-160A) | 0.04 |
| 4-017-083 | Specification Label (220 V) (Chassis No. SMC-160B) | 0.04 |
| 4-017-081 | Mounting Plate, power transformer (Chassis No. SMC-160□) | 0.07 |

| Part No. | Description | Unit Price |
|---|---|---|
| | II. MOUNTING HARDWARES | (Per 100) |
| 7-621-559-58 | Tapping Screw, (+) K 2.6 x 8 | $0.63/100 |
| 7-621-721-82 | Tapping Screw, (+) R 2.6 x 8 | 0.27/100 |
| 7-621-722-57 | Tapping Screw, (+) BV 3 x 8 | 0.17/100 |
| 7-621-722-63 | Tapping Screw, (+) BV 3 x 10 | 0.18/100 |
| 7-682-148-13 | Screw, (+) P 3 x 8 | 0.29/100 |
| 7-682-149-13 | Screw, (+) P 3 x 10 | 0.32/100 |
| 7-682-162-05 | Screw, (+) P 4 x 10 | 0.33/100 |
| 7-682-163-01 | Screw, (+) P 4 x 12 | 0.15/100 |
| 7-682-198-01 | Screw, (+) P 3 x 50 | 0.62/100 |
| 7-682-546-05 | Screw, (+) B 3 x 5 | 0.29/100 |
| 7-682-548-05 | Screw, (+) B 3 x 8 | 0.29/100 |
| 7-682-646-01 | Screw, (+) PS 3 x 5 | 0.24/100 |
| 7-685-147-25 | Tapping Screw, (+) P 3 x 10 | 0.43/100 |
| 7-685-160-21 | Tapping Screw, (+) B 4 x 10 | 0.36/100 |
| 7-685-553-21 | Tapping Screw, (+) B 3 x 30 | 0.71/100 |
| 7-684-011-01 | Nut, 2 ϕ | 0.16/100 |
| 7-684-013-01 | Nut, 3 ϕ | 0.21/100 |
| 7-684-014-00 | Nut, 4 ϕ | 0.25/100 |
| 7-623-105-12 | Washer, 2 ϕ | 0.04/100 |
| 7-623-110-15 | Washer, 4 ϕ | 0.05/100 |
| 7-623-405-01 | Lock Washer, external tooth; 2 ϕ | 0.17/100 |
| 7-623-408-01 | Lock Washer, external tooth; 3 ϕ | 0.19/100 |
| 7-623-410-01 | Lock Washer, external tooth; 4 ϕ | 0.20/100 |
| 7-623-510-11 | Lug Washer, 4 ϕ | 0.11/100 |
| 7-623-617-01 | Eyelet, 2 ϕ x 4 | 0.06/100 |
| 7-625-312-18 | Rivet 2.6 x 3 | 0.19/100 |

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|

## III. ELECTRICAL PARTS

The components marked with ◆ are used for the following sets;

TV-940; Serial No. 47,901 and later
TV-900UA; Serial No. 21,501 and later

### General

| | | | |
|---|---|---|---|
| | 1-463-030 | VHF Tuner (BT-443Wu-02) | $5.37 |
| | 1-463-006-21 | UHF Tuner Ass'y (BT-182) | 3.92 |
| | 8-980-185-75 | Signal Deflection Circuit Board (BF), complete | 23.87 |

### Semiconductors

| | | | |
|---|---|---|---|
| Q301 | | Transistor, 2SC657 | 0.30 |
| ◆ Q301 | | Transistor, 2SC1129 | 0.21 |
| Q302 | | Transistor, 2SC657 | 0.30 |
| ◆ Q302 | | Transistor, 2SC1129 | 0.21 |
| Q303 | | Transistor, 2SC629 | 0.25 |
| ◆ Q303 | | Transistor, 2SC1128 | 0.21 |
| Q304 | | Transistor, 2SB382 | 0.21 |
| Q305 | | Transistor, 2SB382 | 0.21 |
| Q401 | | Transistor, 2SC403A | 0.14 |
| Q402 | | Transistor, 2SC403A | 0.14 |
| Q403 | | Transistor, 2SC403A | 0.14 |
| Q501 | | Transistor, 2SC805 | 0.38 |
| Q501 | | Transistor, 2SC1127 | 0.35 |
| | | (TV-940; Serial No. 38,001 and later<br>TV-900UA; Serial No. 20,501 and later | |
| Q551 | | Transistor, 2SC633 | 0.14 |
| Q552 | | Transistor, 2SB381 | 0.21 |
| Q553 | | Transistor, 2SD72 | 0.39 |
| Q554 | | Transistor, 2SB381 | 0.21 |
| Q601 | | Transistor, 2SA182 | 0.12 |
| Q602 | | Transistor, 2SC633 | 0.14 |
| Q701 | | Transistor, 2SC633 | 0.14 |
| Q702 | | Transistor, 2SA677 | 0.39 |
| Q703 | | Transistor, 2SD292 | 0.37 |
| Q801 | | Transistor, 2SC403A | 0.14 |
| Q802 | | Transistor, 2SD291 | 0.38 |
| Q803 | | Transistor, 2SC895 | 0.37 |
| D302 | | Diode, 1T-22 | 0.05 |
| D401 | | Diode, S6-10 | 0.12 |
| D402 | | Diode, 1T23 | 0.05 |
| D403 | | Diode, 1T23 | 0.05 |

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| D501 | | Diode, HFSD-1Z | $0.12 |
| D601 | | Diode, 1T22A | 0.05 |
| D602 | | Diode, 1T22A | 0.05 |
| D701 | | Diode, 1T22A | 0.05 |
| D702 | | Diode, 1T22A | 0.05 |
| D801 | | Diode, 1T22A | 0.05 |
| D802 | | Diode, SB-2 | 0.37 |
| D803 | | Diode, HFSD-1A | 0.17 |
| D804 | | Diode, UFSD-1A | 0.21 |
| D805 | 1-531-028 | Selenium Rectifier, high voltage (HS-20) | 0.61 |
| DET | 1-425-636 | Detector Block (D301 1T261) | 0.15 |
| Th301 | 8-690-003 | Thermistor, S-90 | 0.03 |
| Th302 | 8-690-006 | Thermistor, S-1250 | 0.03 |
| Th551 | 8-691-001 | Thermistor, CS-120 | 0.06 |
| | | **Coils** | |
| L1 | 1-407-178 | 1 µH, micro inductor | 0.04 |
| L301 | 1-409-160-31 | 41.25 MHz, trap coil | 0.09 |
| L302 | 1-409-160-21 | 47.25 MHz, trap coil | 0.09 |
| L303 | 1-409-160-21 | 39.75 MHz, trap coil | 0.09 |
| L304 | 1-409-170 | 33.75 MHz, trap coil | 0.12 |
| L305 | 1-407-178 | 1 µH, micro inductor | 0.04 |
| L306 | 1-407-178 | 1 µH, micro inductor | 0.04 |
| L307 | 1-407-157 | 10 µH, micro inductor | 0.03 |
| L308 | 1-407-184 | 3.3 µH, micro inductor | 0.05 |
| L309 | 1-407-173 | 220 µH, micro inductor | 0.03 |
| L310 | 1-407-184 | 3.3 µH, micro inductor | 0.05 |
| L311 | 1-407-184 | 3.3 µH, micro inductor | 0.05 |
| L312 | | - built in detector block - | |
| L313 | 1-407-184 | 3.3 µH, micro inductor | 0.05 |
| L401 | 1-407-178 | 1 µH, micro inductor | 0.04 |
| L402 | 1-409-036 | 4.5 MHz, trap coil | 0.10 |
| L403 | 1-407-187 | 5.6 µH, micro inductor | 0.04 |
| L501 | 1-407-171 | 150 µH, micro inductor | 0.03 |
| L501 | - | - | - |
| | | (TV-940; Serial No. 38,001 and later<br>(TV-900UA; Serial No. 20,501 and later | |
| L502 | 1-407-174 | 270 µH, micro inductor | 0.03 |
| L502 | 1-407-176 | 390 µH, micro inductor | 0.03 |
| | | (TV-940; Serial No. 38,001 and later<br>(TV-900UA; Serial No. 20,501 and later | |

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| L601 | 1-407-200 | 3.3 mH, micro inductor | $0.05 |
| L701 | 1-421-174 | Choke Coil, vertical output; VCH | 2.76 |
| L801 | 1-413-005 | Coil, stabilizing; HSC | 0.12 |
| L802 | 1-421-013 | 25 µH, micro inductor | 0.04 |
| L803 | 1-407-365 | 1 µH, micro inductor | 0.03 |
| L804 | 1-407-365 | 1 µH, micro inductor | 0.03 |
| L805 | 1-407-366 | 2 µH, micro inductor | 0.03 |
| L806 | 1-459-042 | Coil, horizontal linearity; HLC | 0.32 |
| L807 | 1-407-175 | 330 µH, micro inductor | 0.03 |
| L901 | 1-421-126 | Choke Coil, filter; BCH | 0.36 |
| L902 | 1-407-169 | 100 µH, micro inductor | 0.03 |

## Transformers

| | | | |
|---|---|---|---|
| T1 | 1-417-014-41 | Transformer, antenna matching | 0.06 |
| T302 | 1-403-701 | Transformer, video i-f | 0.12 |
| T303 | 1-403-727 | Transformer, video i-f | 0.12 |
| T401 | 1-403-348 | Transformer, audio i-f | 0.12 |
| T402 | 1-403-349 | Transformer, audio i-f | 0.13 |
| T403 | 1-403-313-12 | Transformer, audio i-f | 0.27 |
| T701 | 1-435-008 | Transformer, vertical osc; VBT | 0.14 |
| T801 | 1-435-034 | Transformer, horizontal osc; HBT | 0.14 |
| T802 | 1-437-019 | Transformer, horizontal drive; HDT | 0.15 |
| T803 | 1-439-070 | Transformer, flyback; HOT | 1.61 |
| T901 | 1-441-751-12 | Transformer, power (Chassis No. SMC-157) | 1.61 |
| T901 | 1-441-283 | Transformer, power (Chassis No. SMC-160□) | 2.36 |

## Capacitors

| | | | | | | |
|---|---|---|---|---|---|---|
| C301 | 1-102-941 | 4 pF | ±0.5 pF | 50 WV | ceramic | 0.01 |
| C302 | 1-101-969 | 5 pF | ±0.5 pF | 50 WV | ceramic | 0.03 |
| C303 | 1-101-969 | 5 pF | ±0.5 pF | 50 WV | ceramic | 0.03 |
| C304 | 1-102-942 | 5 pF | ±0.5 pF | 50 WV | ceramic | 0.01 |
| ◆C304 | 1-102-668 | 15 pF | ±5 % | 50 WV | ceramic | 0.02 |
| C305 | 1-101-886 | 62 pF | ±5 % | 50 WV | ceramic | 0.01 |
| ◆C305 | - | - | | | | - |
| C306 | 1-102-971 | 82 pF | ±5 % | 50 WV | ceramic | 0.02 |
| ◆C306 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic | 0.02 |
| C307 | 1-102-971 | 82 pF | ±5 % | 50 WV | ceramic | 0.02 |
| C308 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic | 0.02 |
| C309 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic | 0.02 |
| C310 | 1-102-949 | 12 pF | ±5 % | 50 WV | ceramic | 0.02 |

| Ref. No. | Part No. | Description | | | | Unit Price |
|---|---|---|---|---|---|---|
| C311 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | $0.02 |
| C312 | 1-101-455 | 0.001 µF | ±20 % | 50 WV | ceramic ------ | 0.02 |
| C313 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C314 | 1-102-946 | 9 pF | ±5 % | 50 WV | ceramic ------ | 0.02 |
| C315 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C316 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C317 | 1-101-455 | 0.001 µF | ±20 % | 50 WV | ceramic ------ | 0.02 |
| C318 | 1-101-834 | 1.8 pF | ±0.2 pF | 50 WV | ceramic ------ | 0.02 |
| C319 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C320 | 1-121-398 | 10 µF | +100 -10 % | 25 WV | electrolytic - | 0.03 |
| C321 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C322 | - | - | | | | - |
| C323 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C324 | 1-102-934 | 1 pF | ±0.25 pF | 50 WV | ceramic ------ | 0.01 |
| C326 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C327 | 1-102-942 | 5 pF | ±0.5 pF | 50 WV | ceramic ------ | 0.01 |
| C328 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C329 | 1-121-402 | 33 µF | +100 -10 % | 10 WV | electrolytic - | 0.05 |
| C330 | 1-101-006 | 0.047 µF | +100 -10 % | 50 WV | ceramic ------ | 0.03 |
| C331 | 1-127-023 | 1 µF | ±20 % | 10 WV | electrolytic (alox) ------- | 0.06 |
| C332 | 1-105-709-12 | 0.0047 µF | ±10 % | 100 WV | mylar -------- | 0.02 |
| C333 | 1-127-024 | 22 µF | ±20 % | 10 WV | electrolytic (alox) ------- | 0.07 |
| C334 | 1-102-946 | 10 pF | ±5 % | 50 WV | ceramic ------ | 0.02 |
| *C335 | 1-101-837 | 0.5 pF | ±0.2 pF | 50 WV | ceramic ------ | 0.02 |
| | 1-101-586 | 0.8 pF | ±0.2 pF | 50 WV | ceramic ------ | 0.02 |
| | 1-102-934 | 1 pF | ±0.25 pF | 50 WV | ceramic ------ | 0.02 |
| C336 | - | - | | | | - |
| C337 | 1-127-022 | 0.47 µF | ±20 % | 10 WV | electrolytic (alox) ------- | 0.06 |
| C338 | | - built in T302 - | | | | |
| C339 | | - built in T303 - | | | | |
| C340 | | - built in detector block - | | | | |
| C341 | 1-102-946 | 9 pF | ±0.5 pF | 50 WV | ceramic ------ | 0.02 |
| ◆ C341 | - | - | | | | - |
| C342 | | - built in detector block - | | | | |
| C343 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C401 | 1-103-610 | 240 pF | ±5 % | 50 WV | polystyrene -- | 0.03 |
| C402 | 1-103-663 | 330 pF | ±10 % | 50 WV | polystyrene -- | 0.03 |
| C403 | 1-102-973 | 100 pF | ±5 % | 50 WV | ceramic ------ | 0.02 |
| C404 | 1-101-004 | 0.01 µF | +100 -0 % | 50 WV | ceramic ------ | 0.01 |
| C405 | 1-102-943 | 6 pF | ±0.5 pF | 50 WV | ceramic ------ | 0.01 |

* Mark to be selected.

Note: Regarding * ◆ C335, see page 7-2/16.

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| ◆ *C335 | 1-101-586 | 0.8 pF ±5 % 50 WV ceramic -------- | $0.02 |
| | 1-102-934 | 1 pF ±0.25 pF 50 WV ceramic -------- | 0.01 |
| | 1-101-587 | 1.3 pF ±5 % 50 WV ceramic -------- | 0.03 |
| | 1-101-938 | 1.5 pF ±10 % 500 WV ceramic -------- | 0.03 |
| ◆ *R326 | 1-244-701 | 15 kΩ ---------- | 0.02 |
| | 1-244-703 | 18 kΩ ---------- | 0.02 |
| | 1-244-704 | 20 kΩ ---------- | 0.02 |
| | 1-244-705 | 22 kΩ ---------- | 0.02 |
| | 1-244-706 | 24 kΩ ---------- | 0.02 |
| | 1-244-707 | 27 kΩ ---------- | 0.02 |
| | 1-244-708 | 30 kΩ ---------- | 0.02 |
| | 1-244-709 | 33 kΩ ---------- | 0.02 |
| | 1-244-710 | 36 kΩ ---------- | 0.02 |
| | 1-244-711 | 39 kΩ ---------- | 0.02 |
| | 1-244-712 | 43 kΩ ---------- | 0.02 |
| | 1-244-713 | 47 kΩ ---------- | 0.02 |
| | 1-244-714 | 51 kΩ ---------- | 0.02 |

* Mark to be selected.

| Ref. No. | Part No. | Description | | | | Unit Price |
|---|---|---|---|---|---|---|
| C406 | 1-101-004 | 0.01 µF | +100 -0 % | 50 WV | ceramic ------ | $0.01 |
| C407 | - | | - | | | - |
| C408 | 1-101-004 | 0.01 µF | +100 -0 % | 50 WV | ceramic ------ | 0.01 |
| C409 | 1-101-455 | 0.001 µF | ±20 % | 50 WV | ceramic ------ | 0.02 |
| C410 | 1-102-945 | 8 pF | ±0.5 pF | 50 WV | ceramic ------ | 0.01 |
| C411 | 1-102-004 | 0.01 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C412 | 1-101-006 | 0.047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.03 |
| C413 | 1-102-673 | 30 pF | ±5 % | 50 WV | ceramic ------ | 0.02 |
| C414 | 1-101-571 | 140 pF | ±5 % | 50 WV | ceramic ------ | 0.04 |
| C415 | 1-102-098 | 470 pF | ±20 % | 50 WV | ceramic ------ | 0.03 |
| C416 | 1-102-098 | 470 pF | ±20 % | 50 WV | ceramic ------ | 0.03 |
| C417 | 1-121-398 | 10 µF | +100 -10 % | 25 WV | electrolytic - | 0.03 |
| C418 | 1-101-492 | 0.02 µF | ±20 % | 50 WV | ceramic ------ | 0.03 |
| C419 | 1-101-492 | 0.02 µF | ±20 % | 50 WV | ceramic ------ | 0.03 |
| C420 | 1-101-002 | 0.0022 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C421 | 1-101-004 | 0.01 µF | +100 -0 % | 50 WV | ceramic ------ | 0.01 |
| C422 | 1-101-006 | 0.047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.03 |
| C423 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C424 | 1-121-358 | 220 µF | +100 -10 % | 16 WV | electrolytic - | 0.07 |
| C501 | 1-121-398 | 10 µF | +100 -10 % | 25 WV | electrolytic - | 0.03 |
| C502 | 1-105-709-12 | 0.0047 µF | ±10 % | 100 WV | mylar -------- | 0.02 |
| C502 | 1-105-701-12 | 0.001 µF ±10 % | | 100 WV | mylar ---------- | 0.03 |
| | | (TV-940; Serial No. 38,001 and later<br>TV-900UA; Serial No. 20,501 and later | | | | |
| C503 | 1-113-124 | 0.2 µF | ±10 % | 150 WV | paper -------- | 0.09 |
| C504 | 1-121-415 | 100 µF | +100 -10 % | 16 WV | electrolytic - | 0.06 |
| C505 | 1-121-246 | 4.7 µF | +100 -10 % | 150 WV | electrolytic - | 0.06 |
| C506 | 1-113-122 | 0.05 µF | ±20 % | 500 WV | paper -------- | 0.07 |
| C507 | 1-105-755-12 | 0.015 µF | ±10 % | 200 WV | mylar -------- | 0.04 |
| C508 | 1-121-168 | 1 µF | +150 -10 % | 350 WV | electrolytic - | 0.06 |
| C509 | 1-105-749-12 | 0.0047 µF | ±10 % | 200 WV | mylar -------- | 0.03 |
| C510 | - | | - | | | - |
| C511 | 1-113-122 | 0.05 µF | ±20 % | 500 WV | paper -------- | 0.07 |
| C512 | 1-113-122 | 0.05 µF | ±20 % | 500 WV | paper -------- | 0.07 |
| C513 | 1-113-124 | 0.2 µF | ±10 % | 150 WV | paper -------- | 0.09 |
| C551 | 1-121-398 | 10 µF | +100 -10 % | 25 WV | electrolytic - | 0.06 |
| C552 | 1-121-358 | 220 µF | +100 -10 % | 16 WV | electrolytic - | 0.07 |
| C553 | 1-121-402 | 33 µF | +100 -10 % | 10 WV | electrolytic - | 0.05 |
| C554 | 1-121-426 | 470 µF | +100 -10 % | 16 WV | electrolytic - | 0.12 |
| C555 | 1-121-409 | 47 µF | +100 -10 % | 16 WV | electrolytic - | 0.04 |
| C556 | 1-101-005 | 0.022 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C557 | 1-101-005 | 0.022 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C558 | 1-105-717-12 | 0.022 µF | ±20 % | 100 WV | mylar -------- | 0.03 |
| C559 | 1-105-717-12 | 0.022 µF | ±20 % | 100 WV | mylar -------- | 0.03 |

| Ref. No. | Part No. | Description | | | | Unit Price |
|---|---|---|---|---|---|---|
| C601 | 1-127-021 | 0.33 µF | ±20 % | 10 WV | electrolytic (alox) ------- | $0.06 |
| C602 | 1-127-025 | 3.3 µF | ±20 % | 10 WV | electrolytic (alox) ------- | 0.27 |
| C603 | 1-121-344 | 4.7 µF | +150 -10 % | 50 WV | electrolytic - | 0.04 |
| C604 | 1-105-721-12 | 0.047 µF | ±10 % | 100 WV | mylar -------- | 0.05 |
| C605 | 1-105-717-12 | 0.022 µF | ±10 % | 100 WV | mylar -------- | 0.03 |
| C606 | 1-105-713-12 | 0.01 µF | ±10 % | 100 WV | mylar -------- | 0.03 |
| C607 | 1-105-709-12 | 0.0047 µF | ±10 % | 100 WV | mylar -------- | 0.02 |
| C608 | 1-121-345 | 3.3 µF | +150 -10 % | 50 WV | electrolytic - | 0.04 |
| C609 | 1-105-717-12 | 0.022 µF | ±10 % | 100 WV | mylar -------- | 0.03 |
| C610 | 1-127-025 | 3.3 µF | ±20 % | 10 WV | electrolytic (alox) ------- | 0.27 |
| C611 | 1-105-721-12 | 0.047 µF | ±10 % | 100 WV | mylar -------- | 0.05 |
| C701 | 1-127-232 | 4.7 µF | ±20 % | 25 WV | electrolytic (alox) ------- | 0.16 |
| C702 | 1-131-116 | 10 µF | ±20 % | 16 WV | tantalum ----- | 0.35 |
| C703 | 1-121-398 | 10 µF | +100 -10 % | 25 WV | electrolytic - | 0.03 |
| C704 | 1-127-026 | 4.7 µF | ±20 % | 10 WV | electrolytic (alox) ------- | 0.07 |
| C705 | 1-121-415 | 100 µF | +100 -10 % | 16 WV | electrolytic - | 0.06 |
| C706 | 1-121-426 | 470 µF | +100 -10 % | 16 WV | electrolytic - | 0.12 |
| C801 | 1-105-717-12 | 0.022 µF | ±10 % | 100 WV | mylar -------- | 0.03 |
| C802 | 1-105-721-12 | 0.047 µF | ±10 % | 100 WV | mylar -------- | 0.05 |
| C803 | 1-129-776 | 0.022 µF | ±5 % | 50 WV | polypropylene film -------- | 0.05 |
| C804 | 1-105-717-12 | 0.022 µF | ±10 % | 100 WV | mylar -------- | 0.03 |
| *C805 | 1-105-705-12 | 0.0022 µF | ±10 % | 100 WV | mylar -------- | 0.02 |
| | 1-105-706-12 | 0.0033 µF | ±10 % | 100 WV | mylar -------- | 0.04 |
| | 1-105-709-12 | 0.0047 µF | ±10 % | 100 WV | mylar -------- | 0.02 |
| | 1-105-711-12 | 0.0068 µF | ±10 % | 100 WV | mylar -------- | 0.03 |
| | 1-105-713-12 | 0.01 µF | ±10 % | 100 WV | mylar -------- | 0.03 |
| C806 | 1-121-703 | 100 µF | +100 -10 % | 50 WV | electrolytic - | 0.15 |
| C807 | 1-105-725-12 | 0.1 µF | ±10 % | 100 WV | mylar -------- | 0.07 |
| C808 | 1-101-005 | 0.022 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C809 | 1-101-005 | 0.022 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C810 | 1-105-464-16 | 0.0033 µF | ±10 % | 600 WV | mylar -------- | 0.05 |

* Mark to be selected.

| Ref. No. | Part No. | Description | | | Unit Price |
|---|---|---|---|---|---|
| *C811 | 1-105-461-16 | 0.001 µF | ±10 % | 600 WV mylar -------- | $0.04 |
| | 1-105-462-16 | 0.0015 µF | ±10 % | 600 WV mylar -------- | 0.04 |
| | 1-105-463-16 | 0.0022 µF | ±10 % | 600 WV mylar -------- | 0.04 |
| | 1-105-464-16 | 0.0033 µF | ±10 % | 600 WV mylar -------- | 0.05 |
| | 1-105-465-16 | 0.0047 µF | ±10 % | 600 WV mylar -------- | 0.05 |
| C812 | 1-121-703 | 100 µF | +100 -10 % | 50 WV electrolytic - | 0.15 |
| C813 | 1-129-498 | 1.2 µF | ±10 % | 100 WV polyethylene film -------- | 0.36 |
| C814 | 1-101-845 | 0.001 µF | +100 -0 % | 500 WV ceramic ------ | 0.02 |
| C815 | 1-101-006 | 0.047 µF | +100 -0 % | 50 WV ceramic ------ | 0.03 |
| C816 | 1-101-845 | 0.001 µF | +100 -0 % | 500 WV ceramic ------ | 0.02 |
| C817 | 1-101-821 | 0.002 µF | +100 -0 % | 500 WV ceramic ------ | 0.02 |
| C901 | 1-121-555 | 4000 µF | +100 -15 % | 15 WV electrolytic - | 0.38 |
| C902 | 1-121-555 | 4000 µF | +100 -15 % | 15 WV electrolytic - | 0.38 |
| C903 | 1-119-101 | 100 µF | +30 -10 % | 12 WV electrolytic - | 0.06 |
| C904 | 1-121-409 | 47 µF | +100 -10 % | 16 WV electrolytic - | 0.04 |
| C905 | 1-119-106 | 100 µF | ±20 % | 16 WV electrolytic - | 0.04 |

* Mark to be selected.

## Resistors

(All resistors are ERD14V, ±5 %, carbon unless otherwise specified.)

| | | | |
|---|---|---|---|
| R301 | 1-248-629 | 15 Ω ---------- | 0.02 |
| R302 | - | - | - |
| R303 | 1-248-627 | 12 Ω ---------- | 0.02 |
| R304 | 1-248-649 | 100 Ω ---------- | 0.02 |
| R305 | 1-248-659 | 270 Ω ---------- | 0.02 |
| R306 | 1-248-656 | 200 Ω ---------- | 0.02 |
| R307 | 1-248-665 | 470 Ω ---------- | 0.02 |
| R308 | 1-248-656 | 200 Ω ---------- | 0.02 |
| R309 | 1-248-657 | 220 Ω ---------- | 0.02 |
| R310 | 1-248-659 | 270 Ω ---------- | 0.02 |
| R311 | - | - | - |
| R312 | 1-248-663 | 390 Ω ---------- | 0.02 |
| R313 | 1-248-696 | 9.1 kΩ ---------- | 0.02 |
| R314 | 1-248-675 | 1.2 kΩ ---------- | 0.02 |
| R315 | 1-248-651 | 120 Ω ---------- | 0.02 |

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| | 1-244-491 | 5.6 kΩ RD1/8P | $0.02 |
| | 1-244-493 | 6.8 kΩ RD1/8P | 0.02 |
| | 1-244-495 | 8.2 kΩ RD1/8P | 0.02 |
| | 1-244-497 | 10 kΩ RD1/8P | 0.02 |
| | 1-244-499 | 12 kΩ RD1/8P | 0.02 |
| | 1-244-501 | 15 kΩ RD1/8P | 0.02 |
| *R316 | 1-244-503 | 18 kΩ RD1/8P | 0.02 |
| | 1-244-505 | 22 kΩ RD1/8P | 0.02 |
| | 1-244-507 | 27 kΩ RD1/8P | 0.02 |
| | 1-244-509 | 33 kΩ RD1/8P | 0.02 |
| | 1-244-510 | 36 kΩ RD1/8P | 0.02 |
| | 1-244-513 | 47 kΩ RD1/8P | 0.02 |
| R317 | 1-248-646 | 75 Ω | 0.02 |
| R318 | 1-248-680 | 2 kΩ | 0.02 |
| R319 | 1-248-655 | 180 Ω | 0.02 |
| R320 | 1-248-690 | 5.1 kΩ | 0.02 |
| R321 | 1-248-681 | 2.2 kΩ | 0.02 |
| R322 | 1-248-671 | 820 Ω | 0.02 |
| R323 | 1-248-687 | 3.9 kΩ | 0.02 |
| R324 | 1-248-665 | 470 Ω | 0.02 |
| R325 | 1-248-677 | 1.5 kΩ | 0.02 |
| | 1-248-706 | 24 kΩ | 0.02 |
| | 1-248-707 | 27 kΩ | 0.02 |
| | 1-248-708 | 30 kΩ | 0.02 |
| | 1-248-709 | 33 kΩ | 0.02 |
| *R326 | 1-248-710 | 36 kΩ | 0.02 |
| | 1-248-711 | 39 kΩ | 0.02 |
| | 1-248-712 | 43 kΩ | 0.02 |
| | 1-248-713 | 47 kΩ | 0.02 |
| | 1-248-714 | 51 kΩ | 0.02 |
| | 1-248-715 | 56 kΩ | 0.02 |
| R327 | 1-248-700 | 13 kΩ | 0.02 |
| R328 | 1-248-655 | 180 Ω | 0.02 |
| R329 | 1-248-665 | 470 Ω | 0.02 |
| R329 | 1-244-667 | 560 Ω RD1/4H (TV-940; Serial No. 38,001 and later; TV-900UA; Serial No. 20,501 and later) | 0.02 |
| R330 | 1-248-683 | 2.7 kΩ | 0.02 |
| R331 | 1-248-671 | 820 Ω | 0.02 |
| R332 | 1-248-657 | 220 Ω | 0.02 |
| | 1-248-703 | 18 kΩ | 0.02 |
| *R333 | 1-248-704 | 20 kΩ | 0.02 |
| | 1-248-705 | 22 kΩ | 0.02 |
| | 1-248-706 | 24 kΩ | 0.02 |

* Mark to be selected.

Note: Regarding * ◆ R326, see page 7-2/16.

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| R334 | 1-248-666 | 510 Ω | $0.02 |
| R335 | 1-248-666 | 510 Ω | 0.02 |
| R336 | - | - | - |
| R337 | 1-248-659 | 270 Ω | 0.02 |
| ◆R337 | 1-242-658 | 240 Ω | 0.02 |
| ◆R338 | 1-242-665 | 470 Ω | 0.02 |
| R401 | 1-248-657 | 220 Ω | 0.02 |
| R402 | 1-248-664 | 430 Ω | 0.02 |
| R403 | 1-246-706 | 24 kΩ ERD14T | 0.02 |
| R404 | 1-248-686 | 3.6 kΩ | 0.02 |
| R405 | 1-248-673 | 1 kΩ | 0.02 |
| R406 | 1-248-649 | 100 Ω | 0.02 |
| *R407 | 1-244-486 | 3.6 kΩ RD1/8P | 0.02 |
| | 1-244-487 | 3.9 kΩ RD1/8P | 0.02 |
| | 1-244-489 | 4.7 kΩ RD1/8P | 0.02 |
| | 1-244-490 | 5.1 kΩ RD1/8P | 0.02 |
| | 1-244-491 | 5.6 kΩ RD1/8P | 0.02 |
| | 1-244-493 | 6.8 kΩ RD1/8P | 0.02 |
| | 1-244-495 | 8.2 kΩ RD1/8P | 0.02 |
| | 1-244-497 | 10 kΩ RD1/8P | 0.02 |
| R408 | 1-248-694 | 7.5 kΩ | 0.02 |
| R409 | 1-248-685 | 3.3 kΩ | 0.02 |
| R410 | 1-248-670 | 750 Ω | 0.02 |
| R411 | 1-248-673 | 1 kΩ | 0.02 |
| R412 | 1-204-345 | 5.1 kΩ RD1/16L | 0.02 |
| R413 | 1-248-649 | 100 Ω | 0.02 |
| R414 | 1-248-675 | 1.2 kΩ | 0.02 |
| R415 | 1-248-675 | 1.2 kΩ | 0.02 |
| R416 | 1-248-685 | 3.3 kΩ | 0.02 |
| R417 | 1-248-685 | 3.3 kΩ | 0.02 |
| R418 | 1-248-641 | 47 Ω | 0.02 |
| R420 | 1-242-632 | 20 Ω RD1/4V (TV-940; Serial No. 38,001 and later; TV-900UA; Serial No. 20,501 and later) | 0.02 |
| *R501 | 1-246-694 | 7.5 kΩ ERD14T | 0.02 |
| | 1-246-695 | 8.2 kΩ ERD14T | 0.02 |
| | 1-246-697 | 10 kΩ ERD14T | 0.02 |
| | 1-246-699 | 12 kΩ ERD14T | 0.02 |
| | 1-246-701 | 15 kΩ ERD14T | 0.02 |
| R501 | 1-244-693 | 6.8 kΩ RD1/4H (TV-940; Serial No. 38,001 and later; TV-900UA; Serial No. 20,501 and later) | 0.02 |

* Mark to be selected.

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| R502 | 1-250-919 | 82 kΩ RD12T | $0.02 |
| R502 | 1-244-921 | 100 kΩ ERD12V | 0.02 |
| | | (TV-940; Serial No. 38,001 and later<br>TV-900UA; Serial No. 20,501 and later) | |
| R503 | 1-246-640 | 43 Ω ERD14T | 0.02 |
| R503 | 1-244-643 | 56 Ω RD1/4H | 0.02 |
| | | (TV-940; Serial No. 38,001 and later<br>TV-900UA; Serial No. 20,501 and later) | |
| R504 | 1-246-681 | 2.2 kΩ ERD14T | 0.02 |
| R504 | 1-246-673 | 1 kΩ RD1/4H | 0.02 |
| | | (TV-940; Serial No. 38,001 and later<br>TV-900UA; Serial No. 20,501 and later) | |
| R505 | 1-248-697 | 10 kΩ | 0.02 |
| R505 | - | - | - |
| | | (TV-940; Serial No. 38,001 and later<br>TV-900UA; Serial No. 20,501 and later) | |
| R506 | 1-211-078 | 8.2 kΩ RD1P | 0.02 |
| R506 | 1-211-074 | 5.6 kΩ RD1P | 0.02 |
| | | (TV-940; Serial No. 38,001 and later<br>TV-900UA; Serial No. 20,501 and later) | |
| R507 | 1-246-730 | 240 kΩ ERD14T | 0.02 |

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| R508 | 1-246-666 | 510 Ω ERD14T | $0.02 |
| R509 | 1-202-621-51 | 100 kΩ ±20 % RC1/2, composition | 0.02 |
| R510 | 1-246-704 | 20 kΩ ERD14T | 0.02 |
| R511 | 1-202-621-51 | 100 kΩ ±20 % RC1/2, composition | 0.02 |
| R517 | 1-246-696 | 9.1 kΩ ERD14T | 0.02 |
| R518 | 1-248-633 | 22 Ω | 0.02 |
| R518 | - | - | - |
| | | (TV-940; Serial No. 38,001 and later<br>TV-900UA; Serial No. 20,501 and later | |
| R551 | 1-248-697 | 10 kΩ | 0.02 |
| R552 | 1-248-697 | 10 kΩ | 0.02 |
| R553 | 1-248-679 | 1.8 kΩ | 0.02 |
| R554 | 1-248-612 | 3 Ω | 0.02 |
| R555 | 1-248-693 | 6.8 kΩ | 0.02 |
| R556 | 1-248-675 | 1.2 kΩ | 0.02 |
| R557 | 1-248-641 | 47 Ω | 0.02 |
| R558 | 1-248-655 | 180 Ω | 0.02 |
| R559 | 1-248-659 | 270 Ω | 0.02 |
| R560 | 1-248-675 | 1.2 kΩ | 0.02 |
| R561 | 1-248-612 | 3 Ω | 0.02 |
| R562 | 1-248-618 | 5.1 Ω | 0.02 |
| R563 | 1-248-631 | 18 Ω | 0.02 |
| R564 | 1-246-653 | 150 Ω ERD14T | 0.02 |
| R601 | 1-246-642 | 51 Ω ERD14T | 0.02 |
| R602 | 1-246-661 | 330 Ω ERD14T | 0.02 |
| R603 | 1-246-697 | 10 kΩ ERD14T | 0.02 |
| R604 | 1-246-737 | 470 kΩ ERD14T | 0.02 |
| R605 | 1-246-677 | 1.5 kΩ ERD14T | 0.02 |
| R606 | 1-246-697 | 10 kΩ ERD14T | 0.02 |
| R607 | 1-246-701 | 15 kΩ ERD14T | 0.02 |
| R608 | 1-246-712 | 43 kΩ ERD14T | 0.02 |
| R609 | 1-246-656 | 200 Ω ERD14T | 0.02 |
| R610 | 1-246-683 | 2.7 kΩ ERD14T | 0.02 |
| R611 | 1-246-680 | 2 kΩ ERD14T | 0.02 |
| R612 | 1-246-701 | 15 kΩ ERD14T | 0.02 |
| R613 | 1-246-690 | 5.1 kΩ ERD14T | 0.02 |
| R614 | 1-211-074 | 5.6 kΩ RD1P | 0.02 |
| R615 | 1-246-688 | 4.3 kΩ ERD14T | 0.02 |
| R616 | 1-246-690 | 5.1 kΩ ERD14T | 0.02 |
| R617 | 1-246-677 | 1.5 kΩ ERD14T | 0.02 |
| R618 | 1-246-690 | 5.1 kΩ ERD14T | 0.02 |
| R619 | 1-246-670 | 750 Ω ERD14T | 0.02 |
| R620 | 1-246-625 | 10 Ω ERD14T | 0.02 |

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| *R621 | 1-246-687 | 3.9 kΩ ERD14T | $0.02 |
| | 1-246-688 | 4.3 kΩ ERD14T | 0.02 |
| | 1-246-689 | 4.7 kΩ ERD14T | 0.02 |
| | 1-246-690 | 5.1 kΩ ERD14T | 0.02 |
| | 1-246-691 | 5.6 kΩ ERD14T | 0.02 |
| | 1-246-692 | 6.2 kΩ ERD14T | 0.02 |
| | 1-246-693 | 6.8 kΩ ERD14T | 0.02 |
| | 1-246-694 | 7.5 kΩ ERD14T | 0.02 |
| | 1-246-695 | 8.2 kΩ ERD14T | 0.02 |
| R701 | 1-246-660 | 300 Ω ERD14T | 0.02 |
| R702 | 1-246-688 | 4.3 kΩ | 0.02 |
| R703 | 1-246-677 | 1.5 kΩ | 0.02 |
| R704 | 1-246-625 | 10 Ω | 0.02 |
| R705 | 1-246-688 | 4.3 kΩ | 0.02 |
| R706 | 1-246-688 | 4.3 kΩ | 0.02 |
| R707 | 1-246-706 | 24 kΩ | 0.02 |
| R708 | 1-246-680 | 2 kΩ | 0.02 |
| R709 | 1-246-680 | 2 kΩ | 0.02 |
| R710 | 1-246-688 | 4.3 kΩ | 0.02 |
| *R711 | 1-246-673 | 1 kΩ | 0.02 |
| | 1-246-675 | 1.2 kΩ | 0.02 |
| | 1-246-677 | 1.5 kΩ | 0.02 |
| | 1-246-679 | 1.8 kΩ | 0.02 |
| | 1-246-680 | 2 kΩ | 0.02 |
| | 1-246-681 | 2.2 kΩ | 0.02 |
| R712 | 1-246-665 | 470 Ω | 0.02 |
| R713 | 1-207-019 | 3 Ω ±10 % RW1/4RL, wire wound | 0.04 |
| R714 | 1-207-019 | 3 Ω ±10 % RW1/4RL, wire wound | 0.04 |
| R715 | 1-246-660 | 300 Ω ERD14T | 0.02 |
| R801 | 1-246-688 | 4.3 kΩ ERD14T | 0.02 |
| R802 | 1-246-672 | 910 Ω ERD14T | 0.02 |
| R803 | 1-246-673 | 1 kΩ ERD14T | 0.02 |
| R804 | 1-246-666 | 510 Ω ERD14T | 0.02 |
| R805 | 1-246-666 | 510 Ω ERD14T | 0.02 |
| R806 | 1-246-660 | 300 Ω ERD14T | 0.02 |
| R807 | 1-248-691 | 5.6 kΩ ERD14T | 0.02 |
| R813 | 1-246-631 | 18 Ω ERD14T | 0.02 |
| R814 | 1-246-687 | 3.9 kΩ ERD14T | 0.02 |
| R815 | 1-207-091 | 6.8 Ω RW1/2RL, wire wound | 0.04 |
| R816 | 1-207-015 | 2 Ω RW1/4RL, wire wound | 0.02 |

* Mark to be selected.

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| R901 | 1-202-642-31 | 750 kΩ ±10 % RC1/2, composition -------- | $0.02 |
| R902 | 1-207-054 | 39 Ω ±10 % RW3, wire wound ---------- | 0.05 |
| VR301 | 1-221-998 | 500 Ω-B, adjustable (AGC SET) ---------- | 0.14 |
| VR501 | 1-222-506 | 1 kΩ-E, variable (CONTR) ---------- | 0.13 |
| VR502 | 1-222-505 | 250 kΩ-B, variable (BRT) ---------- | 0.13 |
| VR551 | 1-221-822 | 5 kΩ-D, variable (VOLUME) ---------- | 0.42 |
| VR601 | 1-222-510 | 1 kΩ-B, variable (HOR) ---------- | 0.13 |
| VR701 | 1-222-511 | 2 kΩ-B, variable (VER) ---------- | 0.13 |
| VR702 | 1-221-390 | 5 kΩ-B, adjustable (V. LIN) ---------- | 0.09 |
| VR703 | 1-221-390 | 5 kΩ-B, adjustable (HEIGHT) ---------- | 0.09 |

Miscellaneous

| | | | |
|---|---|---|---|
| HPF | 1-231-046 | High Pass Filter ---------- | 0.18 |
| DY | 1-451-055 | Deflection Yoke ---------- | 1.75 |
| ANT | 1-501-130 | Telescopic Antenna ---------- | 0.83 |
| SP | 1-502-126 | Speaker ---------- | 0.53 |
| | 1-506-320 | Dc Plug, 2 pole ---------- | 0.23 |
| J551,552 | 1-507-174-23 | Jack, earphone ---------- | 0.10 |
| | 1-508-082-61 | Connector, 4 pole ---------- | 0.21 |
| | 1-508-201-35<br>1-508-202-22 | Connector, anode cap ---------- | 0.21 |
| S902 | 1-513-216-14 | Switch, charging ---------- | 0.18 |
| S1 | 1-514-429-12 | Slide Switch, antenna ---------- | 0.09 |
| | 1-526-083-55 | Socket Ass'y, picture tube ---------- | 0.33 |
| Se | 1-531-024 | Selenium Rectifier ---------- | 0.41 |
| F902 | 1-532-039 | Fuse, 2 A ---------- | 0.03 |
| F901 | 1-532-261 | Fuse, 0.3 A ---------- | 0.16 |
| | 1-534-379-45 | Output Cable ---------- | 0.13 |
| | 1-534-538 | Cord, power supply ---------- | 0.33 |
| | 1-536-120 | Power Supply Terminal Board, 4 pole -------- | 0.03 |
| | 1-536-192 | Terminal Strip, 2-L-2 ---------- | 0.03 |
| | 1-536-277 | Terminal Strip, L-2 ---------- | 0.01 |
| CRT | 8-731-209-99 | Picture Tube 230DB4 ---------- | 8.52 |
| | 1-532-201 | Thermal Fuse, 0.8 A/100°C (Chassis No. SMC-160□) ---------- | 0.05 |

| Part No. | Description | Unit Price |
|---|---|---|
| | IV. CARTONS & ACCESSORIES | |
| X-44900-03 | Polishing Cloth in Polyethylene Bag | $0.03 |
| X-44910-02-1 | Warranty Card Ass'y | 0.08 |
| 1-501-102 | Loop Antenna Ass'y (AN-8) | 0.24 |
| 1-504-034-22 | Earphone (ME-20A) | 0.14 |
| 3-701-161 | Polyethylene Bag, accessories | 0.01 |
| 4-002-839 | IBM Card Envelope | 0.01 |
| | IBM Card | |
| 4-490-014 | Service Station List (Chassis No. SMC-157) | 0.02 |
| 4-495-289-13 | Instruction Manual (Chassis No. SMC-157) | 0.04 |
| 4-017-058-01 | Packing Carton | 0.36 |
| 4-017-060 | Cushion, left | 0.19 |
| 4-017-061 | Cushion, right | 0.19 |
| 4-017-062 | Polyethylene Bag, TV-set | 0.09 |
| 4-493-131 | Caution Card | 0.04 |
| 4-495-289-81 | Instruction Manual (Chassis No. SMC-160□) | 0.04 |
| | - TV-900UA ONLY - | |
| 4-017-058-11 | Packing Carton | 0.36 |
| 4-017-801 | Specification Label (120 V) | 0.04 |
| 4-017-802 | Specification Label (220 V) | 0.04 |
| 4-955-311-11 | Instruction Manual | 0.04 |

SONY CORPORATION

# COMPLETE SPARE PARTS LIST CHANGE NOTICE

**MODEL** TV-940/900UA

(Production change, ~~correction, addition, deletion~~)

is done onto this parts list.

Replace the former copy with this new one. Refer to this parts list when you order the service parts.

SONY®

# Complete Spare Parts List

## Model TV-940/900UA

Revised

"IMPORTANT"

When ordering parts, please do not fail to furnish us the following:

1. Part Number
2. Model Name
3. Description as mentioned in this parts list

We are now using EDPS (Electronic Data Processing System) in all the departments concerned, for procurement, inventory control, packing, warehousing, etc. Your orders are processed mainly from the PART NUMBERS referred by you. Incorrect part numbers, therefore, will result in incorrect parts shipment. To assure prompt shipment of correct parts, your cooperation will be appreciated.

NOTE:

Prices are subject to change without notice.

SONY CORPORATION

# COMPLETE SPARE PARTS LIST FOR TV-900UA/940

JANUARY, 1972

| Part No. | Description | Unit Price |
|---|---|---|
| | I. MECHANICAL PARTS | |
| X-40074-05 | Mounting Bracket Ass'y, picture tube | $0.04 |
| X-40170-01 | Cabinet Ass'y, front | 1.36 |
| X-40170-02 | Cabinet Ass'y, rear | 1.22 |
| X-40170-03 | Knob Ass'y, VHF channel selector | 0.23 |
| X-40170-04 | Knob Ass'y, fine tuning | 0.15 |
| X-40170-05 | Knob Ass'y, UHF dial | 0.22 |
| X-40170-06 | UHF Dial Ass'y | 0.19 |
| X-40170-07 | Knob Ass'y, PULL ON/OFF control | 0.12 |
| X-40170-08 | Cover Ass'y, carrying handle | 0.07 |
| X-43020-10 | Knob Ass'y, BRT & CONTR control | 0.19 |
| 2-825-006 | Mica Spacer | 0.01 |
| 2-832-003 | Bushing, F2 | 0.01 |
| 3-410-032 | Clamp, cord | 0.02 |
| 3-811-132 | Spring, UHF dial knob | 0.01 |
| 4-001-084 | Spring, UHF dial | 0.01 |
| 4-003-220 | Grounding Spring, picture tube | 0.02 |
| 4-003-250 | Spring, fine tuning knob | 0.02 |
| 4-004-143 | Label, serial number | 0.02 |
| 4-004-201 | Fiber Washer, BF board | 0.01 |
| 4-005-538 | Caution Label, picture tube | 0.04 |
| 4-005-551 | Reinforcement, BF board | 0.01 |
| 4-005-557 | Cushion, printed circuit board | 0.02 |
| 4-006-255 | Terminal Pin | 0.01 |
| 4-007-075 | Cushion, picture tube | 0.02 |
| 4-008-017 | Spring, channel selector knob | 0.02 |
| 4-008-448 | Heat Sink, horizontal output transistor | 0.03 |
| 4-009-533-02S | Terminal Knob, antenna | 0.03 |
| 4-009-535-12S | Screw, antenna | 0.03 |
| 4-009-537 | SIF Shield Cover, lower side | 0.02 |
| 4-009-538 | SIF Fiber Cover | 0.02 |
| 4-009-705 | Panel, upper | 0.08 |
| 4-009-706 | Rubber Foot | 0.01 |
| 4-009-707 | Retaining Plate, protector | 0.02 |
| 4-009-733 | Retaining Spring, speaker | 0.02 |
| 4-009-735 | Clamp, electrolytic capacitor | 0.01 |

| Part No. | Description | Unit Price |
|---|---|---|
| 4-010-012 | Cylindrical Shield, micro inductor | $0.03 |
| 4-010-018 | Spring Washer, 14 $\phi$ | 0.01 |
| 4-010-019 | Nut, 14 $\phi$ | 0.02 |
| 4-010-033 | Label, certification | 0.02 |
| 4-010-506 | VIF Shield Cover, lower side | 0.01 |
| 4-010-507 | VIF Fiber Cover, upper side | 0.01 |
| 4-010-719-11 | Control Knob | 0.02 |
| 4-010-812 | VIF Shield Cover, upper side | 0.03 |
| 4-010-821 | Caution Label, high voltage | 0.01 |
| 4-011-437 | Heat Sink, diode SB-2 | 0.03 |
| 4-011-462 | Spacer, transistor | 0.01 |
| 4-011-923 | Support, high voltage selenium rectifier | 0.07 |
| 4-011-924 | Cap, high voltage selenium rectifier | 0.02 |
| 4-011-925 | SIF Shield Cover, upper side | 0.02 |
| 4-011-928 | Terminal Cover, high voltage | 0.01 |
| 4-011-929 | Reinforcement, printed circuit board | 0.01 |
| 4-011-930 | Mounting Wire Ring, picture tube | 0.06 |
| 4-011-932 | Spacer, high voltage selenium rectifier | 0.01 |
| 4-015-514 | Label, fuse (0.3 A) | 0.01 |
| 4-017-002 | Escutcheon, right | 0.17 |
| 4-017-003 | Escutcheon, left | 0.17 |
| 4-017-005 | Anchor, cord | 0.02 |
| 4-017-041 | Protector, picture tube | 0.42 |
| 4-017-042 | Holder, protector | 0.08 |
| 4-017-043 | Carrying Handle | 0.17 |
| 4-017-044 | Mounting Bracket, vhf tuner | 0.07 |
| 4-017-045 | Mounting Bracket, adjustable resistor | 0.07 |
| 4-017-046 | Supporting Plate, printed circuit board; left | 0.09 |
| 4-017-047 | Supporting Plate, printed circuit board; right | 0.04 |
| 4-017-048 | Heat Sink, vertical output transistor | 0.10 |
| 4-017-049 | Mounting Plate, 4 P plug | 0.04 |
| 4-017-050 | Shaft, carrying handle | 0.02 |
| 4-017-051 | Height Label | 0.01 |
| 4-017-052 | Vertical Line Label | 0.01 |
| 4-017-053 | Holder, cord clamp | 0.01 |
| 4-017-054 | Holder, flyback transformer | 0.02 |
| 4-017-055 | Reinforcement, printed circuit board; VIF side | 0.01 |
| 4-017-056 | Reinforcement, printed circuit board; upper side | 0.05 |
| 4-017-057 | Front Panel | 0.17 |
| 4-017-064 | Spacer, insulator | 0.01 |
| 4-302-110 | Spring, knob | 0.01 |
| 4-017-082 | Specification Label (120 V) (Chassis No. SMC-160A) | 0.04 |
| 4-017-083 | Specification Label (220 V) (Chassis No. SMC-160B) | 0.04 |
| 4-017-081 | Mounting Plate, power transformer (Chassis No. SMC-160□) | 0.07 |

| Part No. | Description | Unit Price |
|---|---|---|
| | II. MOUNTING HARDWARES | (Per 100) |
| 7-621-559-58 | Tapping Screw, (+) K 2.6 x 8 | $0.63/100 |
| 7-621-721-82 | Tapping Screw, (+) R 2.6 x 8 | 0.27/100 |
| 7-621-722-57 | Tapping Screw, (+) BV 3 x 8 | 0.17/100 |
| 7-621-722-63 | Tapping Screw, (+) BV 3 x 10 | 0.18/100 |
| 7-682-148-13 | Screw, (+) P 3 x 8 | 0.29/100 |
| 7-682-149-13 | Screw, (+) P 3 x 10 | 0.32/100 |
| 7-682-162-05 | Screw, (+) P 4 x 10 | 0.33/100 |
| 7-682-163-01 | Screw, (+) P 4 x 12 | 0.15/100 |
| 7-682-198-01 | Screw, (+) P 3 x 50 | 0.62/100 |
| 7-682-546-05 | Screw, (+) B 3 x 5 | 0.29/100 |
| 7-682-548-05 | Screw, (+) B 3 x 8 | 0.29/100 |
| 7-682-646-01 | Screw, (+) PS 3 x 5 | 0.24/100 |
| 7-685-147-25 | Tapping Screw, (+) P 3 x 10 | 0.43/100 |
| 7-685-160-21 | Tapping Screw, (+) B 4 x 10 | 0.36/100 |
| 7-685-553-21 | Tapping Screw, (+) B 3 x 30 | 0.71/100 |
| 7-684-011-01 | Nut, 2 ϕ | 0.16/100 |
| 7-684-013-01 | Nut, 3 ϕ | 0.21/100 |
| 7-684-014-00 | Nut, 4 ϕ | 0.25/100 |
| 7-623-105-12 | Washer, 2 ϕ | 0.04/100 |
| 7-623-110-15 | Washer, 4 ϕ | 0.05/100 |
| 7-623-405-01 | Lock Washer, external tooth; 2 ϕ | 0.17/100 |
| 7-623-408-01 | Lock Washer, external tooth; 3 ϕ | 0.19/100 |
| 7-623-410-01 | Lock Washer, external tooth; 4 ϕ | 0.20/100 |
| 7-623-510-11 | Lug Washer, 4 ϕ | 0.11/100 |
| 7-623-617-01 | Eyelet, 2 ϕ x 4 | 0.06/100 |
| 7-625-312-18 | Rivet 2.6 x 3 | 0.19/100 |

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| | | III. ELECTRICAL PARTS | |
| | | The components marked with ◆ are used for the following sets; | |
| | | TV-940; Serial No. 47,901 and later | |
| | | TV-900UA; Serial No. 21,501 and later | |
| | | General | |
| | 1-463-030 | VHF Tuner (BT-443Wu-02) | $5.37 |
| | 1-463-006-21 | UHF Tuner Ass'y (BT-182) | 3.92 |
| | 8-980-185-75 | Signal Deflection Circuit Board (BF), complete | 23.87 |
| | | Semiconductors | |
| Q301 | | Transistor, 2SC657 | 0.30 |
| ◆ Q301 | | Transistor, 2SC1129 | 0.21 |
| Q302 | | Transistor, 2SC657 | 0.30 |
| ◆ Q302 | | Transistor, 2SC1129 | 0.21 |
| Q303 | | Transistor, 2SC629 | 0.25 |
| ◆ Q303 | | Transistor, 2SC1128 | 0.21 |
| Q304 | | Transistor, 2SB382 | 0.21 |
| Q305 | | Transistor, 2SB382 | 0.21 |
| Q401 | | Transistor, 2SC403A | 0.14 |
| Q402 | | Transistor, 2SC403A | 0.14 |
| Q403 | | Transistor, 2SC403A | 0.14 |
| Q501 | | Transistor, 2SC805 | 0.38 |
| Q501 | | Transistor, 2SC1127 (TV-940; Serial No. 38,001 and later / TV-900UA; Serial No. 20,501 and later) | 0.35 |
| Q551 | | Transistor, 2SC633 | 0.14 |
| Q552 | | Transistor, 2SB381 | 0.21 |
| Q553 | | Transistor, 2SD72 | 0.39 |
| Q554 | | Transistor, 2SB381 | 0.21 |
| Q601 | | Transistor, 2SA182 | 0.12 |
| Q602 | | Transistor, 2SC633 | 0.14 |
| Q701 | | Transistor, 2SC633 | 0.14 |
| Q702 | | Transistor, 2SA677 | 0.39 |
| Q703 | | Transistor, 2SD292 | 0.37 |
| Q801 | | Transistor, 2SC403A | 0.14 |
| Q802 | | Transistor, 2SD291 | 0.38 |
| Q803 | | Transistor, 2SC895 | 0.37 |
| D302 | | Diode, 1T-22 | 0.05 |
| D401 | | Diode, S6-10 | 0.12 |
| D402 | | Diode, 1T23 | 0.05 |
| D403 | | Diode, 1T23 | 0.05 |

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| D501 | | Diode, HFSD-1Z | $0.12 |
| D601 | | Diode, 1T22A | 0.05 |
| D602 | | Diode, 1T22A | 0.05 |
| D701 | | Diode, 1T22A | 0.05 |
| D702 | | Diode, 1T22A | 0.05 |
| D801 | | Diode, 1T22A | 0.05 |
| D802 | | Diode, SB-2 | 0.37 |
| D803 | | Diode, HFSD-1A | 0.17 |
| D804 | | Diode, UFSD-1A | 0.21 |
| D805 | 1-531-028 | Selenium Rectifier, high voltage (HS-20) | 0.61 |
| DET | 1-425-636 | Detector Block (D301 1T261) | 0.15 |
| Th301 | 8-690-003 | Thermistor, S-90 | 0.03 |
| Th302 | 8-690-006 | Thermistor, S-1250 | 0.03 |
| Th551 | 8-691-001 | Thermistor, CS-120 | 0.06 |
| | | **Coils** | |
| L1 | 1-407-178 | 1 µH, micro inductor | 0.04 |
| L301 | 1-409-160-31 | 41.25 MHz, trap coil | 0.09 |
| L302 | 1-409-160-21 | 47.25 MHz, trap coil | 0.09 |
| L303 | 1-409-160-21 | 39.75 MHz, trap coil | 0.09 |
| L304 | 1-409-170 | 33.75 MHz, trap coil | 0.12 |
| L305 | 1-407-178 | 1 µH, micro inductor | 0.04 |
| L306 | 1-407-178 | 1 µH, micro inductor | 0.04 |
| L307 | 1-407-157 | 10 µH, micro inductor | 0.03 |
| L308 | 1-407-184 | 3.3 µH, micro inductor | 0.05 |
| L309 | 1-407-173 | 220 µH, micro inductor | 0.03 |
| L310 | 1-407-184 | 3.3 µH, micro inductor | 0.05 |
| L311 | 1-407-184 | 3.3 µH, micro inductor | 0.05 |
| L312 | | - built in detector block - | |
| L313 | 1-407-184 | 3.3 µH, micro inductor | 0.05 |
| L401 | 1-407-178 | 1 µH, micro inductor | 0.04 |
| L402 | 1-409-036 | 4.5 MHz, trap coil | 0.10 |
| L403 | 1-407-187 | 5.6 µH, micro inductor | 0.04 |
| L501 | 1-407-171 | 150 µH, micro inductor | 0.03 |
| L501 | - | - | - |
| | | (TV-940; Serial No. 38,001 and later<br>(TV-900UA; Serial No. 20,501 and later | |
| L502 | 1-407-174 | 270 µH, micro inductor | 0.03 |
| L502 | 1-407-176 | 390 µH, micro inductor | 0.03 |
| | | (TV-940; Serial No. 38,001 and later<br>(TV-900UA; Serial No. 20,501 and later | |

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| L601 | 1-407-200 | 3.3 mH, micro inductor | $0.05 |
| L701 | 1-421-174 | Choke Coil, vertical output; VCH | 2.76 |
| L801 | 1-413-005 | Coil, stabilizing; HSC | 0.12 |
| L802 | 1-421-013 | 25 µH, micro inductor | 0.04 |
| L803 | 1-407-365 | 1 µH, micro inductor | 0.03 |
| L804 | 1-407-365 | 1 µH, micro inductor | 0.03 |
| L805 | 1-407-366 | 2 µH, micro inductor | 0.03 |
| L806 | 1-459-042 | Coil, horizontal linearity; HLC | 0.32 |
| L807 | 1-407-175 | 330 µH, micro inductor | 0.03 |
| L901 | 1-421-126 | Choke Coil, filter; BCH | 0.36 |
| L902 | 1-407-169 | 100 µH, micro inductor | 0.03 |
| | | **Transformers** | |
| T1 | 1-417-014-41 | Transformer, antenna matching | 0.06 |
| T302 | 1-403-701 | Transformer, video i-f | 0.12 |
| T303 | 1-403-727 | Transformer, video i-f | 0.12 |
| T401 | 1-403-348 | Transformer, audio i-f | 0.12 |
| T402 | 1-403-349 | Transformer, audio i-f | 0.13 |
| T403 | 1-403-313-12 | Transformer, audio i-f | 0.27 |
| T701 | 1-435-008 | Transformer, vertical osc; VBT | 0.14 |
| T801 | 1-435-034 | Transformer, horizontal osc; HBT | 0.14 |
| T802 | 1-437-019 | Transformer, horizontal drive; HDT | 0.15 |
| T803 | 1-439-070 | Transformer, flyback; HOT | 1.61 |
| T901 | 1-441-751-12 | Transformer, power (Chassis No. SMC-157) | 1.61 |
| T901 | 1-441-283 | Transformer, power (Chassis No. SMC-160□) | 2.36 |
| | | **Capacitors** | |
| C301 | 1-102-941 | 4 pF ±0.5 pF 50 WV ceramic | 0.01 |
| C302 | 1-101-969 | 5 pF ±0.5 pF 50 WV ceramic | 0.03 |
| C303 | 1-101-969 | 5 pF ±0.5 pF 50 WV ceramic | 0.03 |
| C304 | 1-102-942 | 5 pF ±0.5 pF 50 WV ceramic | 0.01 |
| ◆C304 | 1-102-668 | 15 pF ±5 % 50 WV ceramic | 0.02 |
| C305 | 1-101-886 | 62 pF ±5 % 50 WV ceramic | 0.01 |
| ◆C305 | - | - | - |
| C306 | 1-102-971 | 82 pF ±5 % 50 WV ceramic | 0.02 |
| ◆C306 | 1-101-003 | 0.0047 µF +100 -0 % 50 WV ceramic | 0.02 |
| C307 | 1-102-971 | 82 pF ±5 % 50 WV ceramic | 0.02 |
| C308 | 1-101-003 | 0.0047 µF +100 -0 % 50 WV ceramic | 0.02 |
| C309 | 1-101-003 | 0.0047 µF +100 -0 % 50 WV ceramic | 0.02 |
| C310 | 1-102-949 | 12 pF ±5 % 50 WV ceramic | 0.02 |

| Ref. No. | Part No. | Description | | | | Unit Price |
|---|---|---|---|---|---|---|
| C311 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | $0.02 |
| C312 | 1-101-455 | 0.001 µF | ±20 % | 50 WV | ceramic ------ | 0.02 |
| C313 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C314 | 1-102-946 | 9 pF | ±5 % | 50 WV | ceramic ------ | 0.02 |
| C315 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C316 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C317 | 1-101-455 | 0.001 µF | ±20 % | 50 WV | ceramic ------ | 0.02 |
| C318 | 1-101-834 | 1.8 pF | ±0.2 pF | 50 WV | ceramic ------ | 0.02 |
| C319 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C320 | 1-121-398 | 10 µF | +100 -10 % | 25 WV | electrolytic - | 0.03 |
| C321 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C322 | - | | - | | | - |
| C323 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C324 | 1-102-934 | 1 pF | ±0.25 pF | 50 WV | ceramic ------ | 0.01 |
| C326 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C327 | 1-102-942 | 5 pF | ±0.5 pF | 50 WV | ceramic ------ | 0.01 |
| C328 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C329 | 1-121-402 | 33 µF | +100 -10 % | 10 WV | electrolytic - | 0.05 |
| C330 | 1-101-006 | 0.047 µF | +100 -10 % | 50 WV | ceramic ------ | 0.03 |
| C331 | 1-127-023 | 1 µF | ±20 % | 10 WV | electrolytic (alox) ------- | 0.06 |
| C332 | 1-105-709-12 | 0.0047 µF | ±10 % | 100 WV | mylar -------- | 0.02 |
| C333 | 1-127-024 | 22 µF | ±20 % | 10 WV | electrolytic (alox) ------- | 0.07 |
| C334 | 1-102-946 | 10 pF | ±5 % | 50 WV | ceramic ------ | 0.02 |
| *C335 | 1-101-837 | 0.5 pF | ±0.2 pF | 50 WV | ceramic ------ | 0.02 |
| | 1-101-586 | 0.8 pF | ±0.2 pF | 50 WV | ceramic ------ | 0.02 |
| | 1-102-934 | 1 pF | ±0.25 pF | 50 WV | ceramic ------ | 0.02 |
| C336 | - | | - | | | - |
| C337 | 1-127-022 | 0.47 µF | ±20 % | 10 WV | electrolytic (alox) ------- | 0.06 |
| C338 | | - built in T302 - | | | | |
| C339 | | - built in T303 - | | | | |
| C340 | | - built in detector block - | | | | |
| C341 | 1-102-946 | 9 pF | ±0.5 pF | 50 WV | ceramic ------ | 0.02 |
| ◆ C341 | - | | - | | | - |
| C342 | | - built in detector block - | | | | |
| C343 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C401 | 1-103-610 | 240 pF | ±5 % | 50 WV | polystyrene -- | 0.03 |
| C402 | 1-103-663 | 330 pF | ±10 % | 50 WV | polystyrene -- | 0.03 |
| C403 | 1-102-973 | 100 pF | ±5 % | 50 WV | ceramic ------ | 0.02 |
| C404 | 1-101-004 | 0.01 µF | +100 -0 % | 50 WV | ceramic ------ | 0.01 |
| C405 | 1-102-943 | 6 pF | ±0.5 pF | 50 WV | ceramic ------ | 0.01 |

* Mark to be selected.

Note: Regarding * ◆ C335, see page 7-2/16.

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| ◆ *C335 | 1-101-586 | 0.8 pF ±5 % 50 WV ceramic -------- | $0.02 |
| | 1-102-934 | 1 pF ±0.25 pF 50 WV ceramic -------- | 0.01 |
| | 1-101-587 | 1.3 pF ±5 % 50 WV ceramic -------- | 0.03 |
| | 1-101-938 | 1.5 pF ±10 % 500 WV ceramic -------- | 0.03 |
| ◆ *R326 | 1-244-701 | 15 kΩ ---------- | 0.02 |
| | 1-244-703 | 18 kΩ ---------- | 0.02 |
| | 1-244-704 | 20 kΩ ---------- | 0.02 |
| | 1-244-705 | 22 kΩ ---------- | 0.02 |
| | 1-244-706 | 24 kΩ ---------- | 0.02 |
| | 1-244-707 | 27 kΩ ---------- | 0.02 |
| | 1-244-708 | 30 kΩ ---------- | 0.02 |
| | 1-244-709 | 33 kΩ ---------- | 0.02 |
| | 1-244-710 | 36 kΩ ---------- | 0.02 |
| | 1-244-711 | 39 kΩ ---------- | 0.02 |
| | 1-244-712 | 43 kΩ ---------- | 0.02 |
| | 1-244-713 | 47 kΩ ---------- | 0.02 |
| | 1-244-714 | 51 kΩ ---------- | 0.02 |

* Mark to be selected.

| Ref. No. | Part No. | Description | | | | Unit Price |
|---|---|---|---|---|---|---|
| C406 | 1-101-004 | 0.01 µF | +100 -0 % | 50 WV | ceramic ------ | $0.01 |
| C407 | - | - | | | | - |
| C408 | 1-101-004 | 0.01 µF | +100 -0 % | 50 WV | ceramic ------ | 0.01 |
| C409 | 1-101-455 | 0.001 µF | ±20 % | 50 WV | ceramic ------ | 0.02 |
| C410 | 1-102-945 | 8 pF | ±0.5 pF | 50 WV | ceramic ------ | 0.01 |
| C411 | 1-102-004 | 0.01 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C412 | 1-101-006 | 0.047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.03 |
| C413 | 1-102-673 | 30 pF | ±5 % | 50 WV | ceramic ------ | 0.02 |
| C414 | 1-101-571 | 140 pF | ±5 % | 50 WV | ceramic ------ | 0.04 |
| C415 | 1-102-098 | 470 pF | ±20 % | 50 WV | ceramic ------ | 0.03 |
| C416 | 1-102-098 | 470 pF | ±20 % | 50 WV | ceramic ------ | 0.03 |
| C417 | 1-121-398 | 10 µF | +100 -10 % | 25 WV | electrolytic - | 0.03 |
| C418 | 1-101-492 | 0.02 µF | ±20 % | 50 WV | ceramic ------ | 0.03 |
| C419 | 1-101-492 | 0.02 µF | ±20 % | 50 WV | ceramic ------ | 0.03 |
| C420 | 1-101-002 | 0.0022 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C421 | 1-101-004 | 0.01 µF | +100 -0 % | 50 WV | ceramic ------ | 0.01 |
| C422 | 1-101-006 | 0.047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.03 |
| C423 | 1-101-003 | 0.0047 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C424 | 1-121-358 | 220 µF | +100 -10 % | 16 WV | electrolytic - | 0.07 |
| C501 | 1-121-398 | 10 µF | +100 -10 % | 25 WV | electrolytic - | 0.03 |
| C502 | 1-105-709-12 | 0.0047 µF | ±10 % | 100 WV | mylar -------- | 0.02 |
| C502 | 1-105-701-12 | 0.001 µF ±10 % (TV-940; Serial No. 38,001 and later TV-900UA; Serial No. 20,501 and later | | 100 WV | mylar ---------- | 0.03 |
| C503 | 1-113-124 | 0.2 µF | ±10 % | 150 WV | paper -------- | 0.09 |
| C504 | 1-121-415 | 100 µF | +100 -10 % | 16 WV | electrolytic - | 0.06 |
| C505 | 1-121-246 | 4.7 µF | +100 -10 % | 150 WV | electrolytic - | 0.06 |
| C506 | 1-113-122 | 0.05 µF | ±20 % | 500 WV | paper -------- | 0.07 |
| C507 | 1-105-755-12 | 0.015 µF | ±10 % | 200 WV | mylar -------- | 0.04 |
| C508 | 1-121-168 | 1 µF | +150 -10 % | 350 WV | electrolytic - | 0.06 |
| C509 | 1-105-749-12 | 0.0047 µF | ±10 % | 200 WV | mylar -------- | 0.03 |
| C510 | - | - | | | | - |
| C511 | 1-113-122 | 0.05 µF | ±20 % | 500 WV | paper -------- | 0.07 |
| C512 | 1-113-122 | 0.05 µF | ±20 % | 500 WV | paper -------- | 0.07 |
| C513 | 1-113-124 | 0.2 µF | ±10 % | 150 WV | paper -------- | 0.09 |
| C551 | 1-121-398 | 10 µF | +100 -10 % | 25 WV | electrolytic - | 0.06 |
| C552 | 1-121-358 | 220 µF | +100 -10 % | 16 WV | electrolytic - | 0.07 |
| C553 | 1-121-402 | 33 µF | +100 -10 % | 10 WV | electrolytic - | 0.05 |
| C554 | 1-121-426 | 470 µF | +100 -10 % | 16 WV | electrolytic - | 0.12 |
| C555 | 1-121-409 | 47 µF | +100 -10 % | 16 WV | electrolytic - | 0.04 |
| C556 | 1-101-005 | 0.022 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C557 | 1-101-005 | 0.022 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C558 | 1-105-717-12 | 0.022 µF | ±20 % | 100 WV | mylar -------- | 0.03 |
| C559 | 1-105-717-12 | 0.022 µF | ±20 % | 100 WV | mylar -------- | 0.03 |

| Ref. No. | Part No. | Description | | | | Unit Price |
|---|---|---|---|---|---|---|
| C601 | 1-127-021 | 0.33 µF | ±20 % | 10 WV | electrolytic (alox) ------- | $0.06 |
| C602 | 1-127-025 | 3.3 µF | ±20 % | 10 WV | electrolytic (alox) ------- | 0.27 |
| C603 | 1-121-344 | 4.7 µF | +150 -10 % | 50 WV | electrolytic - | 0.04 |
| C604 | 1-105-721-12 | 0.047 µF | ±10 % | 100 WV | mylar -------- | 0.05 |
| C605 | 1-105-717-12 | 0.022 µF | ±10 % | 100 WV | mylar -------- | 0.03 |
| C606 | 1-105-713-12 | 0.01 µF | ±10 % | 100 WV | mylar -------- | 0.03 |
| C607 | 1-105-709-12 | 0.0047 µF | ±10 % | 100 WV | mylar -------- | 0.02 |
| C608 | 1-121-345 | 3.3 µF | +150 -10 % | 50 WV | electrolytic - | 0.04 |
| C609 | 1-105-717-12 | 0.022 µF | ±10 % | 100 WV | mylar -------- | 0.03 |
| C610 | 1-127-025 | 3.3 µF | ±20 % | 10 WV | electrolytic (alox) ------- | 0.27 |
| C611 | 1-105-721-12 | 0.047 µF | ±10 % | 100 WV | mylar -------- | 0.05 |
| C701 | 1-127-232 | 4.7 µF | ±20 % | 25 WV | electrolytic (alox) ------- | 0.16 |
| C702 | 1-131-116 | 10 µF | ±20 % | 16 WV | tantalum ----- | 0.35 |
| C703 | 1-121-398 | 10 µF | +100 -10 % | 25 WV | electrolytic - | 0.03 |
| C704 | 1-127-026 | 4.7 µF | ±20 % | 10 WV | electrolytic (alox) ------- | 0.07 |
| C705 | 1-121-415 | 100 µF | +100 -10 % | 16 WV | electrolytic - | 0.06 |
| C706 | 1-121-426 | 470 µF | +100 -10 % | 16 WV | electrolytic - | 0.12 |
| C801 | 1-105-717-12 | 0.022 µF | ±10 % | 100 WV | mylar -------- | 0.03 |
| C802 | 1-105-721-12 | 0.047 µF | ±10 % | 100 WV | mylar -------- | 0.05 |
| C803 | 1-129-776 | 0.022 µF | ±5 % | 50 WV | polypropylene film -------- | 0.05 |
| C804 | 1-105-717-12 | 0.022 µF | ±10 % | 100 WV | mylar -------- | 0.03 |
| *C805 | 1-105-705-12 | 0.0022 µF | ±10 % | 100 WV | mylar -------- | 0.02 |
| | 1-105-706-12 | 0.0033 µF | ±10 % | 100 WV | mylar -------- | 0.04 |
| | 1-105-709-12 | 0.0047 µF | ±10 % | 100 WV | mylar -------- | 0.02 |
| | 1-105-711-12 | 0.0068 µF | ±10 % | 100 WV | mylar -------- | 0.03 |
| | 1-105-713-12 | 0.01 µF | ±10 % | 100 WV | mylar -------- | 0.03 |
| C806 | 1-121-703 | 100 µF | +100 -10 % | 50 WV | electrolytic - | 0.15 |
| C807 | 1-105-725-12 | 0.1 µF | ±10 % | 100 WV | mylar -------- | 0.07 |
| C808 | 1-101-005 | 0.022 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C809 | 1-101-005 | 0.022 µF | +100 -0 % | 50 WV | ceramic ------ | 0.02 |
| C810 | 1-105-464-16 | 0.0033 µF | ±10 % | 600 WV | mylar -------- | 0.05 |

* Mark to be selected.

| Ref. No. | Part No. | Description | | | Unit Price |
|---|---|---|---|---|---|
| *C811 | 1-105-461-16 | 0.001 µF | ±10 % | 600 WV mylar -------- | $0.04 |
| | 1-105-462-16 | 0.0015 µF | ±10 % | 600 WV mylar -------- | 0.04 |
| | 1-105-463-16 | 0.0022 µF | ±10 % | 600 WV mylar -------- | 0.04 |
| | 1-105-464-16 | 0.0033 µF | ±10 % | 600 WV mylar -------- | 0.05 |
| | 1-105-465-16 | 0.0047 µF | ±10 % | 600 WV mylar -------- | 0.05 |
| C812 | 1-121-703 | 100 µF | +100 -10 % | 50 WV electrolytic - | 0.15 |
| C813 | 1-129-498 | 1.2 µF | ±10 % | 100 WV polyethylene film -------- | 0.36 |
| C814 | 1-101-845 | 0.001 µF | +100 -0 % | 500 WV ceramic ------ | 0.02 |
| C815 | 1-101-006 | 0.047 µF | +100 -0 % | 50 WV ceramic ------ | 0.03 |
| C816 | 1-101-845 | 0.001 µF | +100 -0 % | 500 WV ceramic ------ | 0.02 |
| C817 | 1-101-821 | 0.002 µF | +100 -0 % | 500 WV ceramic ------ | 0.02 |
| C901 | 1-121-555 | 4000 µF | +100 -15 % | 15 WV electrolytic - | 0.38 |
| C902 | 1-121-555 | 4000 µF | +100 -15 % | 15 WV electrolytic - | 0.38 |
| C903 | 1-119-101 | 100 µF | +30 -10 % | 12 WV electrolytic - | 0.06 |
| C904 | 1-121-409 | 47 µF | +100 -10 % | 16 WV electrolytic - | 0.04 |
| C905 | 1-119-106 | 100 µF | ±20 % | 16 WV electrolytic - | 0.04 |

* Mark to be selected.

## Resistors

(All resistors are ERD14V, ±5 %, carbon unless otherwise specified.)

| | | | |
|---|---|---|---|
| R301 | 1-248-629 | 15 Ω ---------- | 0.02 |
| R302 | - | - | - |
| R303 | 1-248-627 | 12 Ω ---------- | 0.02 |
| R304 | 1-248-649 | 100 Ω ---------- | 0.02 |
| R305 | 1-248-659 | 270 Ω ---------- | 0.02 |
| R306 | 1-248-656 | 200 Ω ---------- | 0.02 |
| R307 | 1-248-665 | 470 Ω ---------- | 0.02 |
| R308 | 1-248-656 | 200 Ω ---------- | 0.02 |
| R309 | 1-248-657 | 220 Ω ---------- | 0.02 |
| R310 | 1-248-659 | 270 Ω ---------- | 0.02 |
| R311 | - | - | - |
| R312 | 1-248-663 | 390 Ω ---------- | 0.02 |
| R313 | 1-248-696 | 9.1 kΩ ---------- | 0.02 |
| R314 | 1-248-675 | 1.2 kΩ ---------- | 0.02 |
| R315 | 1-248-651 | 120 Ω ---------- | 0.02 |

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| | 1-244-491 | 5.6 kΩ RD1/8P | $0.02 |
| | 1-244-493 | 6.8 kΩ RD1/8P | 0.02 |
| | 1-244-495 | 8.2 kΩ RD1/8P | 0.02 |
| | 1-244-497 | 10 kΩ RD1/8P | 0.02 |
| | 1-244-499 | 12 kΩ RD1/8P | 0.02 |
| | 1-244-501 | 15 kΩ RD1/8P | 0.02 |
| *R316 | 1-244-503 | 18 kΩ RD1/8P | 0.02 |
| | 1-244-505 | 22 kΩ RD1/8P | 0.02 |
| | 1-244-507 | 27 kΩ RD1/8P | 0.02 |
| | 1-244-509 | 33 kΩ RD1/8P | 0.02 |
| | 1-244-510 | 36 kΩ RD1/8P | 0.02 |
| | 1-244-513 | 47 kΩ RD1/8P | 0.02 |
| R317 | 1-248-646 | 75 Ω | 0.02 |
| R318 | 1-248-680 | 2 kΩ | 0.02 |
| R319 | 1-248-655 | 180 Ω | 0.02 |
| R320 | 1-248-690 | 5.1 kΩ | 0.02 |
| R321 | 1-248-681 | 2.2 kΩ | 0.02 |
| R322 | 1-248-671 | 820 Ω | 0.02 |
| R323 | 1-248-687 | 3.9 kΩ | 0.02 |
| R324 | 1-248-665 | 470 Ω | 0.02 |
| R325 | 1-248-677 | 1.5 kΩ | 0.02 |
| | 1-248-706 | 24 kΩ | 0.02 |
| | 1-248-707 | 27 kΩ | 0.02 |
| | 1-248-708 | 30 kΩ | 0.02 |
| | 1-248-709 | 33 kΩ | 0.02 |
| *R326 | 1-248-710 | 36 kΩ | 0.02 |
| | 1-248-711 | 39 kΩ | 0.02 |
| | 1-248-712 | 43 kΩ | 0.02 |
| | 1-248-713 | 47 kΩ | 0.02 |
| | 1-248-714 | 51 kΩ | 0.02 |
| | 1-248-715 | 56 kΩ | 0.02 |
| R327 | 1-248-700 | 13 kΩ | 0.02 |
| R328 | 1-248-655 | 180 Ω | 0.02 |
| R329 | 1-248-665 | 470 Ω | 0.02 |
| R329 | 1-244-667 | 560 Ω RD1/4H (TV-940; Serial No. 38,001 and later; TV-900UA; Serial No. 20,501 and later) | 0.02 |
| R330 | 1-248-683 | 2.7 kΩ | 0.02 |
| R331 | 1-248-671 | 820 Ω | 0.02 |
| R332 | 1-248-657 | 220 Ω | 0.02 |
| | 1-248-703 | 18 kΩ | 0.02 |
| *R333 | 1-248-704 | 20 kΩ | 0.02 |
| | 1-248-705 | 22 kΩ | 0.02 |
| | 1-248-706 | 24 kΩ | 0.02 |

* Mark to be selected.

Note: Regarding * ◆ R326, see page 7-2/16.

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| R334 | 1-248-666 | 510 Ω | $0.02 |
| R335 | 1-248-666 | 510 Ω | 0.02 |
| R336 | - | - | - |
| R337 | 1-248-659 | 270 Ω | 0.02 |
| ◆R337 | 1-242-658 | 240 Ω | 0.02 |
| ◆R338 | 1-242-665 | 470 Ω | 0.02 |
| R401 | 1-248-657 | 220 Ω | 0.02 |
| R402 | 1-248-664 | 430 Ω | 0.02 |
| R403 | 1-246-706 | 24 kΩ ERD14T | 0.02 |
| R404 | 1-248-686 | 3.6 kΩ | 0.02 |
| R405 | 1-248-673 | 1 kΩ | 0.02 |
| R406 | 1-248-649 | 100 Ω | 0.02 |
| *R407 | 1-244-486 | 3.6 kΩ RD1/8P | 0.02 |
| | 1-244-487 | 3.9 kΩ RD1/8P | 0.02 |
| | 1-244-489 | 4.7 kΩ RD1/8P | 0.02 |
| | 1-244-490 | 5.1 kΩ RD1/8P | 0.02 |
| | 1-244-491 | 5.6 kΩ RD1/8P | 0.02 |
| | 1-244-493 | 6.8 kΩ RD1/8P | 0.02 |
| | 1-244-495 | 8.2 kΩ RD1/8P | 0.02 |
| | 1-244-497 | 10 kΩ RD1/8P | 0.02 |
| R408 | 1-248-694 | 7.5 kΩ | 0.02 |
| R409 | 1-248-685 | 3.3 kΩ | 0.02 |
| R410 | 1-248-670 | 750 Ω | 0.02 |
| R411 | 1-248-673 | 1 kΩ | 0.02 |
| R412 | 1-204-345 | 5.1 kΩ RD1/16L | 0.02 |
| R413 | 1-248-649 | 100 Ω | 0.02 |
| R414 | 1-248-675 | 1.2 kΩ | 0.02 |
| R415 | 1-248-675 | 1.2 kΩ | 0.02 |
| R416 | 1-248-685 | 3.3 kΩ | 0.02 |
| R417 | 1-248-685 | 3.3 kΩ | 0.02 |
| R418 | 1-248-641 | 47 Ω | 0.02 |
| R420 | 1-242-632 | 20 Ω RD1/4V<br>(TV-940; Serial No. 38,001 and later<br>(TV-900UA; Serial No. 20,501 and later | 0.02 |
| *R501 | 1-246-694 | 7.5 kΩ ERD14T | 0.02 |
| | 1-246-695 | 8.2 kΩ ERD14T | 0.02 |
| | 1-246-697 | 10 kΩ ERD14T | 0.02 |
| | 1-246-699 | 12 kΩ ERD14T | 0.02 |
| | 1-246-701 | 15 kΩ ERD14T | 0.02 |
| R501 | 1-244-693 | 6.8 kΩ RD1/4H<br>(TV-940; Serial No. 38,001 and later<br>(TV-900UA; Serial No. 20,501 and later | 0.02 |

* Mark to be selected.

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| R502 | 1-250-919 | 82 kΩ RD12T | $0.02 |
| R502 | 1-244-921 | 100 kΩ ERD12V | 0.02 |
| | | (TV-940; Serial No. 38,001 and later<br>TV-900UA; Serial No. 20,501 and later | |
| R503 | 1-246-640 | 43 Ω ERD14T | 0.02 |
| R503 | 1-244-643 | 56 Ω RD1/4H | 0.02 |
| | | (TV-940; Serial No. 38,001 and later<br>TV-900UA; Serial No. 20,501 and later | |
| R504 | 1-246-681 | 2.2 kΩ ERD14T | 0.02 |
| R504 | 1-246-673 | 1 kΩ RD1/4H | 0.02 |
| | | (TV-940; Serial No. 38,001 and later<br>TV-900UA; Serial No. 20,501 and later | |
| R505 | 1-248-697 | 10 kΩ | 0.02 |
| R505 | - | - | - |
| | | (TV-940; Serial No. 38,001 and later<br>TV-900UA; Serial No. 20,501 and later | |
| R506 | 1-211-078 | 8.2 kΩ RD1P | 0.02 |
| R506 | 1-211-074 | 5.6 kΩ RD1P | 0.02 |
| | | (TV-940; Serial No. 38,001 and later<br>TV-900UA; Serial No. 20,501 and later | |
| R507 | 1-246-730 | 240 kΩ ERD14T | 0.02 |

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| R508 | 1-246-666 | 510 Ω ERD14T | $0.02 |
| R509 | 1-202-621-51 | 100 kΩ ±20 % RC1/2, composition | 0.02 |
| R510 | 1-246-704 | 20 kΩ ERD14T | 0.02 |
| R511 | 1-202-621-51 | 100 kΩ ±20 % RC1/2, composition | 0.02 |
| R517 | 1-246-696 | 9.1 kΩ ERD14T | 0.02 |
| R518 | 1-248-633 | 22 Ω | 0.02 |
| R518 | - | - | - |
| | | (TV-940; Serial No. 38,001 and later<br>(TV-900UA; Serial No. 20,501 and later | |
| R551 | 1-248-697 | 10 kΩ | 0.02 |
| R552 | 1-248-697 | 10 kΩ | 0.02 |
| R553 | 1-248-679 | 1.8 kΩ | 0.02 |
| R554 | 1-248-612 | 3 Ω | 0.02 |
| R555 | 1-248-693 | 6.8 kΩ | 0.02 |
| R556 | 1-248-675 | 1.2 kΩ | 0.02 |
| R557 | 1-248-641 | 47 Ω | 0.02 |
| R558 | 1-248-655 | 180 Ω | 0.02 |
| R559 | 1-248-659 | 270 Ω | 0.02 |
| R560 | 1-248-675 | 1.2 kΩ | 0.02 |
| R561 | 1-248-612 | 3 Ω | 0.02 |
| R562 | 1-248-618 | 5.1 Ω | 0.02 |
| R563 | 1-248-631 | 18 Ω | 0.02 |
| R564 | 1-246-653 | 150 Ω ERD14T | 0.02 |
| R601 | 1-246-642 | 51 Ω ERD14T | 0.02 |
| R602 | 1-246-661 | 330 Ω ERD14T | 0.02 |
| R603 | 1-246-697 | 10 kΩ ERD14T | 0.02 |
| R604 | 1-246-737 | 470 kΩ ERD14T | 0.02 |
| R605 | 1-246-677 | 1.5 kΩ ERD14T | 0.02 |
| R606 | 1-246-697 | 10 kΩ ERD14T | 0.02 |
| R607 | 1-246-701 | 15 kΩ ERD14T | 0.02 |
| R608 | 1-246-712 | 43 kΩ ERD14T | 0.02 |
| R609 | 1-246-656 | 200 Ω ERD14T | 0.02 |
| R610 | 1-246-683 | 2.7 kΩ ERD14T | 0.02 |
| R611 | 1-246-680 | 2 kΩ ERD14T | 0.02 |
| R612 | 1-246-701 | 15 kΩ ERD14T | 0.02 |
| R613 | 1-246-690 | 5.1 kΩ ERD14T | 0.02 |
| R614 | 1-211-074 | 5.6 kΩ RD1P | 0.02 |
| R615 | 1-246-688 | 4.3 kΩ ERD14T | 0.02 |
| R616 | 1-246-690 | 5.1 kΩ ERD14T | 0.02 |
| R617 | 1-246-677 | 1.5 kΩ ERD14T | 0.02 |
| R618 | 1-246-690 | 5.1 kΩ ERD14T | 0.02 |
| R619 | 1-246-670 | 750 Ω ERD14T | 0.02 |
| R620 | 1-246-625 | 10 Ω ERD14T | 0.02 |

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| *R621 | 1-246-687 | 3.9 kΩ ERD14T | $0.02 |
| | 1-246-688 | 4.3 kΩ ERD14T | 0.02 |
| | 1-246-689 | 4.7 kΩ ERD14T | 0.02 |
| | 1-246-690 | 5.1 kΩ ERD14T | 0.02 |
| | 1-246-691 | 5.6 kΩ ERD14T | 0.02 |
| | 1-246-692 | 6.2 kΩ ERD14T | 0.02 |
| | 1-246-693 | 6.8 kΩ ERD14T | 0.02 |
| | 1-246-694 | 7.5 kΩ ERD14T | 0.02 |
| | 1-246-695 | 8.2 kΩ ERD14T | 0.02 |
| R701 | 1-246-660 | 300 Ω ERD14T | 0.02 |
| R702 | 1-246-688 | 4.3 kΩ | 0.02 |
| R703 | 1-246-677 | 1.5 kΩ | 0.02 |
| R704 | 1-246-625 | 10 Ω | 0.02 |
| R705 | 1-246-688 | 4.3 kΩ | 0.02 |
| R706 | 1-246-688 | 4.3 kΩ | 0.02 |
| R707 | 1-246-706 | 24 kΩ | 0.02 |
| R708 | 1-246-680 | 2 kΩ | 0.02 |
| R709 | 1-246-680 | 2 kΩ | 0.02 |
| R710 | 1-246-688 | 4.3 kΩ | 0.02 |
| *R711 | 1-246-673 | 1 kΩ | 0.02 |
| | 1-246-675 | 1.2 kΩ | 0.02 |
| | 1-246-677 | 1.5 kΩ | 0.02 |
| | 1-246-679 | 1.8 kΩ | 0.02 |
| | 1-246-680 | 2 kΩ | 0.02 |
| | 1-246-681 | 2.2 kΩ | 0.02 |
| R712 | 1-246-665 | 470 Ω | 0.02 |
| R713 | 1-207-019 | 3 Ω ±10 % RW1/4RL, wire wound | 0.04 |
| R714 | 1-207-019 | 3 Ω ±10 % RW1/4RL, wire wound | 0.04 |
| R715 | 1-246-660 | 300 Ω ERD14T | 0.02 |
| R801 | 1-246-688 | 4.3 kΩ ERD14T | 0.02 |
| R802 | 1-246-672 | 910 Ω ERD14T | 0.02 |
| R803 | 1-246-673 | 1 kΩ ERD14T | 0.02 |
| R804 | 1-246-666 | 510 Ω ERD14T | 0.02 |
| R805 | 1-246-666 | 510 Ω ERD14T | 0.02 |
| R806 | 1-246-660 | 300 Ω ERD14T | 0.02 |
| R807 | 1-248-691 | 5.6 kΩ ERD14T | 0.02 |
| R813 | 1-246-631 | 18 Ω ERD14T | 0.02 |
| R814 | 1-246-687 | 3.9 kΩ ERD14T | 0.02 |
| R815 | 1-207-091 | 6.8 Ω RW1/2RL, wire wound | 0.04 |
| R816 | 1-207-015 | 2 Ω RW1/4RL, wire wound | 0.02 |

* Mark to be selected.

| Ref. No. | Part No. | Description | Unit Price |
|---|---|---|---|
| R901 | 1-202-642-31 | 750 kΩ ±10 % RC1/2, composition -------- | $0.02 |
| R902 | 1-207-054 | 39 Ω ±10 % RW3, wire wound ---------- | 0.05 |
| VR301 | 1-221-998 | 500 Ω-B, adjustable (AGC SET) ---------- | 0.14 |
| VR501 | 1-222-506 | 1 kΩ-E, variable (CONTR) ---------- | 0.13 |
| VR502 | 1-222-505 | 250 kΩ-B, variable (BRT) ---------- | 0.13 |
| VR551 | 1-221-822 | 5 kΩ-D, variable (VOLUME) ---------- | 0.42 |
| VR601 | 1-222-510 | 1 kΩ-B, variable (HOR) ---------- | 0.13 |
| VR701 | 1-222-511 | 2 kΩ-B, variable (VER) ---------- | 0.13 |
| VR702 | 1-221-390 | 5 kΩ-B, adjustable (V. LIN) ---------- | 0.09 |
| VR703 | 1-221-390 | 5 kΩ-B, adjustable (HEIGHT) ---------- | 0.09 |
| | | **Miscellaneous** | |
| HPF | 1-231-046 | High Pass Filter ---------- | 0.18 |
| DY | 1-451-055 | Deflection Yoke ---------- | 1.75 |
| ANT | 1-501-130 | Telescopic Antenna ---------- | 0.83 |
| SP | 1-502-126 | Speaker ---------- | 0.53 |
| | 1-506-320 | Dc Plug, 2 pole ---------- | 0.23 |
| J551,552 | 1-507-174-23 | Jack, earphone ---------- | 0.10 |
| | 1-508-082-61 | Connector, 4 pole ---------- | 0.21 |
| | 1-508-201-35<br>1-508-202-22 | Connector, anode cap ---------- | 0.21 |
| S902 | 1-513-216-14 | Switch, charging ---------- | 0.18 |
| S1 | 1-514-429-12 | Slide Switch, antenna ---------- | 0.09 |
| | 1-526-083-55 | Socket Ass'y, picture tube ---------- | 0.33 |
| Se | 1-531-024 | Selenium Rectifier ---------- | 0.41 |
| F902 | 1-532-039 | Fuse, 2 A ---------- | 0.03 |
| F901 | 1-532-261 | Fuse, 0.3 A ---------- | 0.16 |
| | 1-534-379-45 | Output Cable ---------- | 0.13 |
| | 1-534-538 | Cord, power supply ---------- | 0.33 |
| | 1-536-120 | Power Supply Terminal Board, 4 pole -------- | 0.03 |
| | 1-536-192 | Terminal Strip, 2-L-2 ---------- | 0.03 |
| | 1-536-277 | Terminal Strip, L-2 ---------- | 0.01 |
| CRT | 8-731-209-99 | Picture Tube 230DB4 ---------- | 8.52 |
| | 1-532-201 | Thermal Fuse, 0.8 A/100°C (Chassis No. SMC-160□) ---------- | 0.05 |

| Part No. | Description | Unit Price |
|---|---|---|
| | IV. CARTONS & ACCESSORIES | |
| X-44900-03 | Polishing Cloth in Polyethylene Bag | $0.03 |
| X-44910-02-1 | Warranty Card Ass'y | 0.08 |
| 1-501-102 | Loop Antenna Ass'y (AN-8) | 0.24 |
| 1-504-034-22 | Earphone (ME-20A) | 0.14 |
| 3-701-161 | Polyethylene Bag, accessories | 0.01 |
| 4-002-839 | IBM Card Envelope | 0.01 |
| | IBM Card | |
| 4-490-014 | Service Station List (Chassis No. SMC-157) | 0.02 |
| 4-495-289-13 | Instruction Manual (Chassis No. SMC-157) | 0.04 |
| 4-017-058-01 | Packing Carton | 0.36 |
| 4-017-060 | Cushion, left | 0.19 |
| 4-017-061 | Cushion, right | 0.19 |
| 4-017-062 | Polyethylene Bag, TV-set | 0.09 |
| 4-493-131 | Caution Card | 0.04 |
| 4-495-289-81 | Instruction Manual (Chassis No. SMC-160□) | 0.04 |
| | - TV-900UA ONLY - | |
| 4-017-058-11 | Packing Carton | 0.36 |
| 4-017-801 | Specification Label (120 V) | 0.04 |
| 4-017-802 | Specification Label (220 V) | 0.04 |
| 4-955-311-11 | Instruction Manual | 0.04 |

SONY®
SERVICE MANUAL

# TV-940/900UA

# SUPPLEMENT

No. 2
JAN. '72

Subject: Production change
Applicable set: TV-940 (USA model); Serial No. 47901 and later
TV-940 (CANADA model); Serial No. 12601 and later
TV-900UA; Serial No. 21501 and later

| Ref. No. | Former Parts | New Parts |
|---|---|---|
| Q301 | 2SC657 | 2SC1129 |
| Q302 | 2SC657 | 2SC1129 |
| Q303 | 2SC629 | 2SC1128 |
| C304 | 1-102-856 5pF | 1-102-668 15pF 50WV |
| C305 | 1-101-886 62pF | short |
| C306 | 1-102-971 82pF | 1-101-003 0.0047μF 50WV |
| C341 | 1-102-946 9pF | discarded |
| R337 | 1-248-659 270Ω | 1-242-658 240Ω |
| R338 | | 1-242-665 470Ω parallel with L305 |
| C335 | 0.5pF~1pF | 1-101-586 0.8pF<br>1-102-934 1pF<br>1-101-587 1.3pF<br>1-101-938 1.5pF |
| R326 | 24kΩ~56kΩ | 1-244-701 15kΩ<br>1-244-703 18kΩ<br>1-244-704 20kΩ<br>1-244-705 22kΩ<br>1-244-706 24kΩ<br>1-244-707 27kΩ<br>1-244-708 30kΩ<br>1-244-709 33kΩ<br>1-244-710 36kΩ<br>1-244-711 39kΩ<br>1-244-712 43kΩ<br>1-244-713 47kΩ<br>1-244-714 51kΩ |

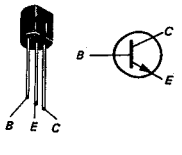
**1. Add the Emitter current of Q301 adjustment on page 11 as follows:**

| ITEMS | PREPARATIONS | EQUIPMENT CONNECTIONS | ADJUST | ADJUSTMENT PROCEDURE |
|---|---|---|---|---|
| Emitter current Ic of Q301 adjustment | 1. Set the channel selector to the highest inactive channel in the area.<br>2. Unsolder the keying pulse lead. | 1. Connect a VOM to the emitter of Q301. | R327 (15kΩ~ 51kΩ) | 1. Select the values for R327 to obtain 0.87V to 1.02V on the VOM. |

**2. Change the voltage value of transistor as follows:**

| | B | E | C |
|---|---|---|---|
| Q301 | 1.6V | 0.95V | 7.4V |
| Q302 | 1.6V | 1.0V | 8.6V |
| Q303 | 1.0V | 0.7V | 11.0V |
| Q304 | 3.4V | 2.8V | −14.0V |
| Q305 | 7.4V | 6.3V | 1.3V |

*2SC1128*
*2SC1129*






SONY CORPORATION

© 1972
Printed in Japan

SONY®
SERVICE MANUAL

# TV-940/900UA

# SUPPLEMENT

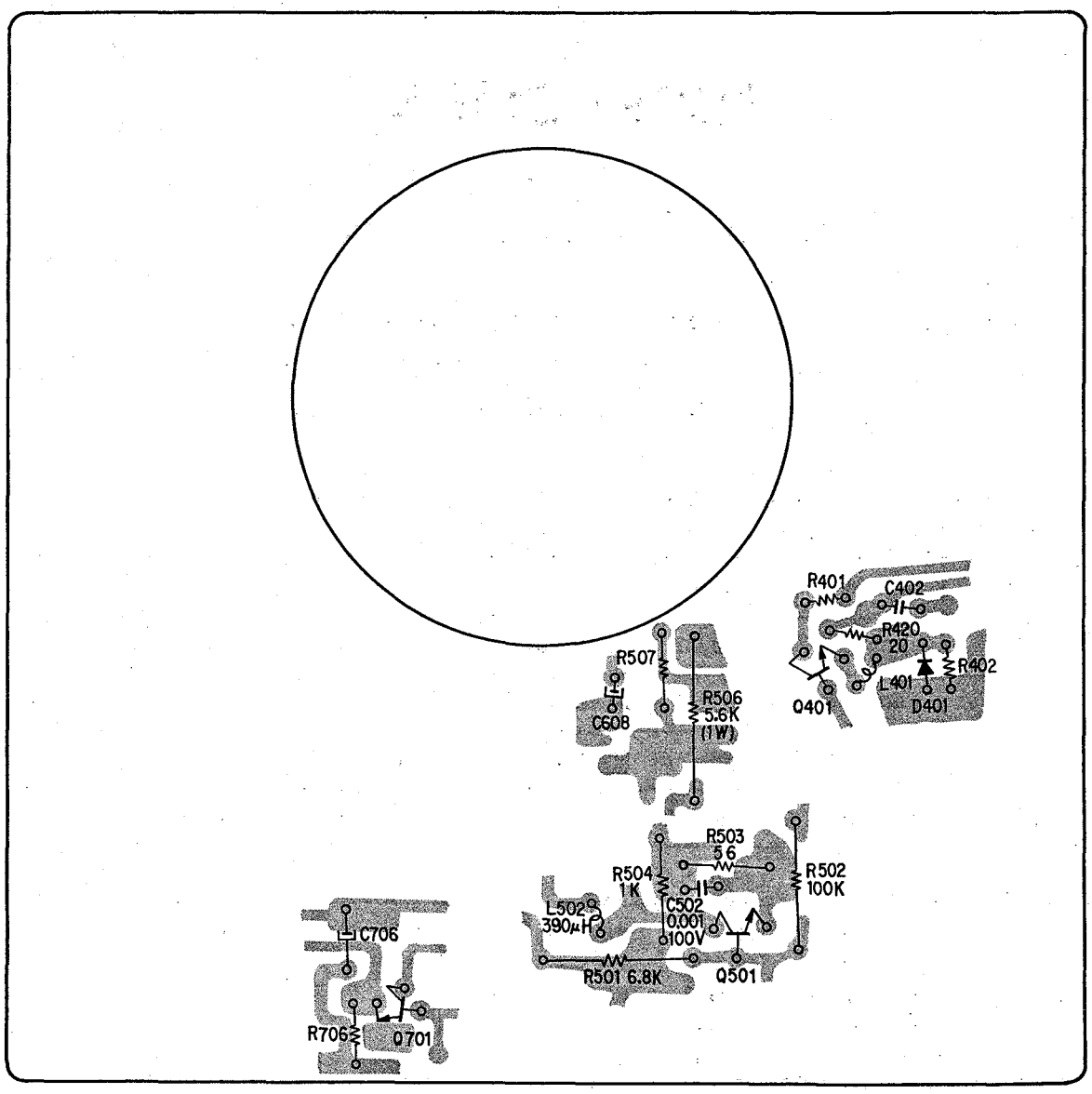
No. 1
November '71

## MOUNTING DIAGRAM SUPPLEMENT

**APPLICABLE SET :** **TV-940 (USA) ; Serial No. 38,001 and later**
**TV-940 (CANADA) ; Serial No. 11,101 and later**
**TV-900 UA ; Serial No. 20,501 and later**

| *Ref. No.* | *Former Parts* | | | *New Parts* | | |
|---|---|---|---|---|---|---|
| Q501 | | 2SC805 | | | 2SC1127 | |
| L501 | 1-407-171 | 150 μH | micro inductor | – discarded – | | |
| L502 | 1-407-174 | 270 μH | micro inductor | 1-407-176 | 390 μH | micro inductor |
| C502 | 1-105-709-12 | 0.0047 μF | 100 WV, mylar | 1-105-701-12 | 0.001 μF | 100 WV, mylar |
| R329 | 1-248-665 | 470 Ω | | 1-244-667 | 560 Ω | RD ¼ H |
| R420 | | | | 1-242-632 | 20 Ω | RD ¼ V |
| R501 | 1-246-694<br>1-246-695<br>1-246-697<br>1-246-699<br>1-246-701 | 7.5 kΩ<br>8.2 kΩ<br>10 kΩ<br>12 kΩ<br>15 kΩ | ERD14 T<br>ERD14 T<br>ERD14 T<br>ERD14 T<br>ERD14 T | 1-244-693 | 6.8 kΩ | RD ¼ H |
| R502 | 1-250-919 | 82 kΩ | RD12 T | 1-244-921 | 100 kΩ | ERD12 V |
| R503 | 1-246-640 | 43 Ω | ERD14 T | 1-244-643 | 56 Ω | RD ¼ H |
| R504 | 1-246-681 | 2.2 kΩ | ERD14 T | 1-244-673 | 1 kΩ | RD ¼ H |
| R505 | 1-248-697 | 10 kΩ | | – discarded – | | |
| R506 | 1-211-078 | 8.2 kΩ | RD1 P | 1-211-074 | 5.6 kΩ | RD1 P |
| R518 | 1-248-633 | 22 Ω | | – discarded – | | |

**TV-940**
**TV-900UA**




SONY CORPORATION

2A0505-1

© 1971
Printed in Japan

SONY®
SERVICE MANUAL

# TV-940

*CANADA Model*

No1.
Jul. 1971

# SUPPLEMENT

**The following parts are different from the parts of the manual.**

| Page | | Canada Model |
|---|---|---|
| 24<br>29 | D401 S6-10 | D401 MZ-00 |
| 27 | specification label | 4-017-091 specification label<br>**added**<br>4-003-506 retainer, specification label |
| 28 | X-44910-02 warranty card ass'y | 4-491-012 warranty card<br>**added**<br>4-491-059-31 instruction card, French |

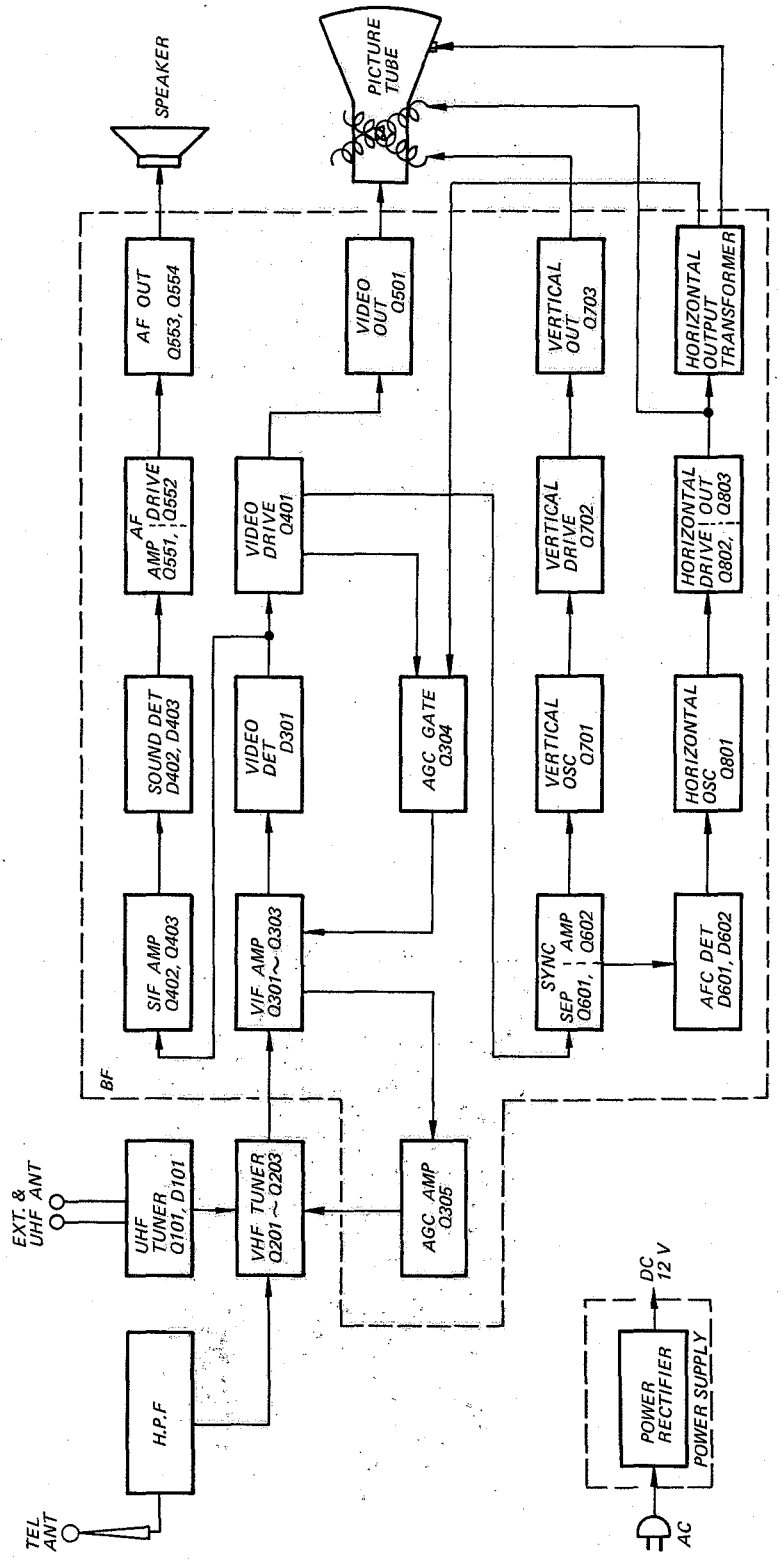
SONY CORPORATION

2A0505-1

© 1971
Printed in Japan

# SECTION 1
# OUTLINE

## 1-1. BLOCK DIAGRAM



## 1-2. EXTERNAL VIEW

*– Front view –*

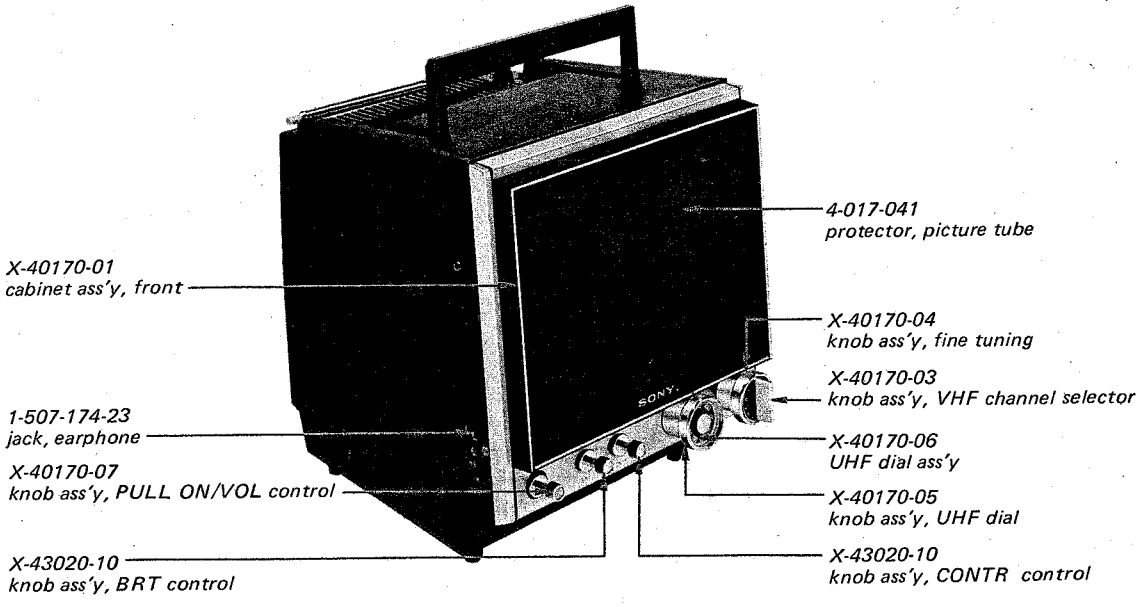



*Fig. 1-2.*

*– Rear view –*

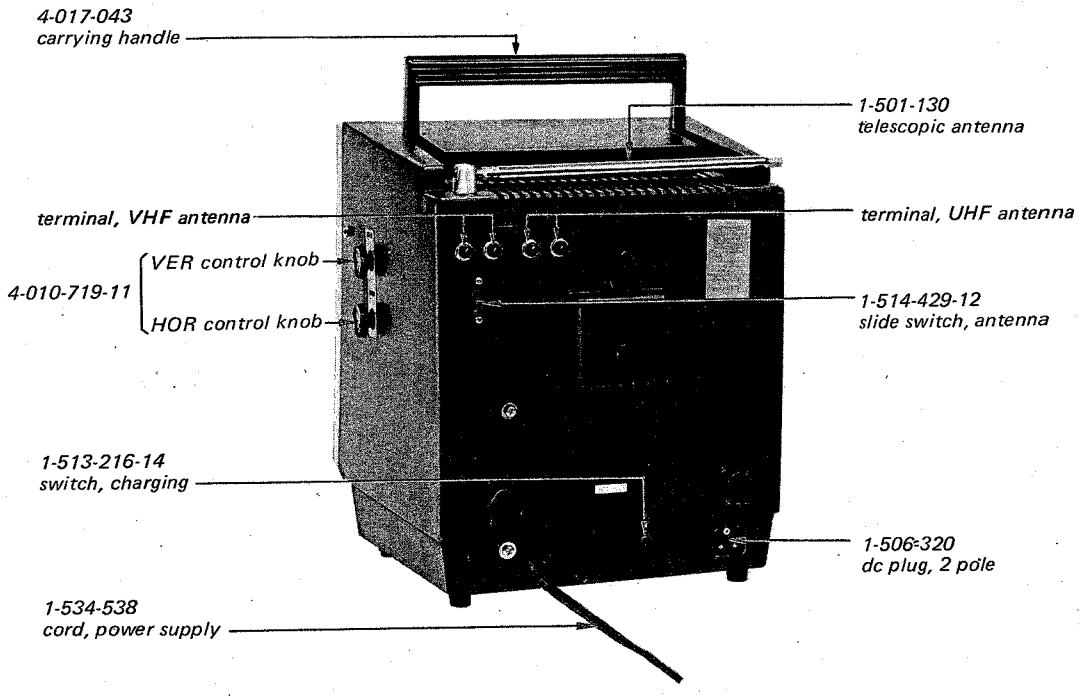



*Fig. 1-3.*

## 1-3. INTERNAL VIEW

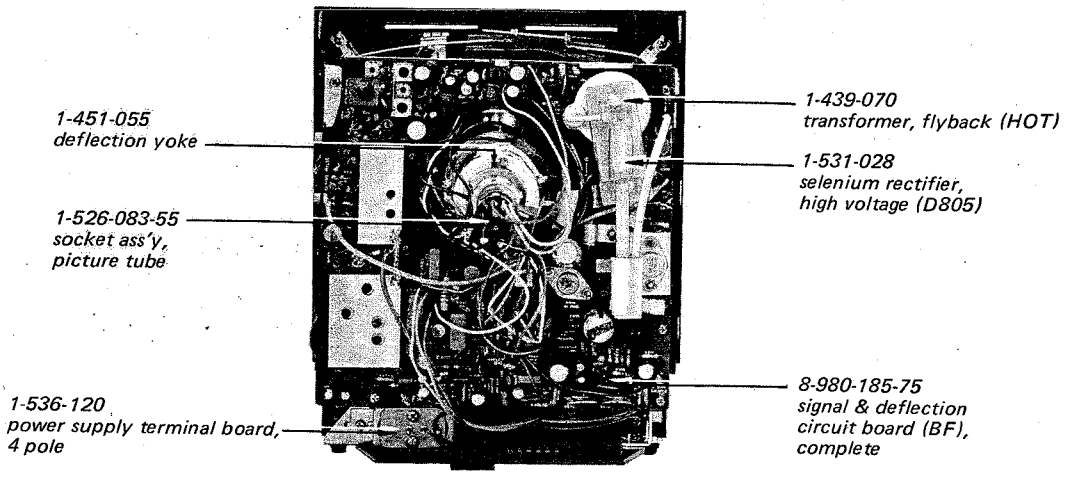



Fig. 1-4.

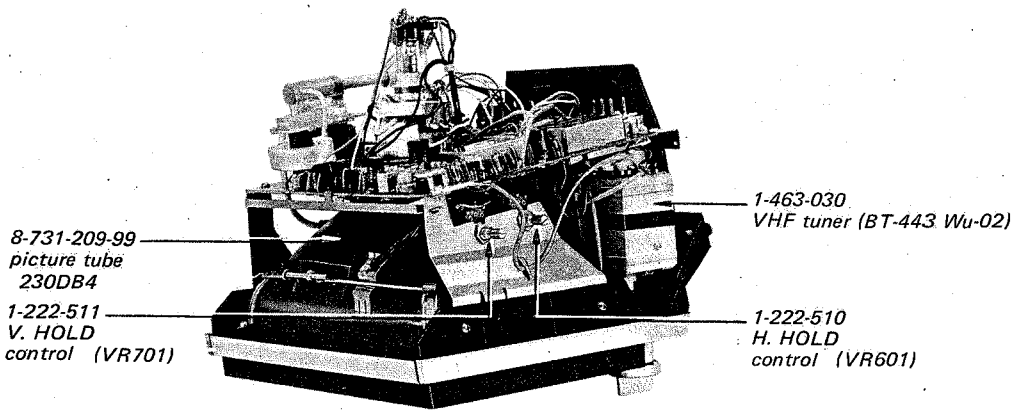



Fig. 1-5.

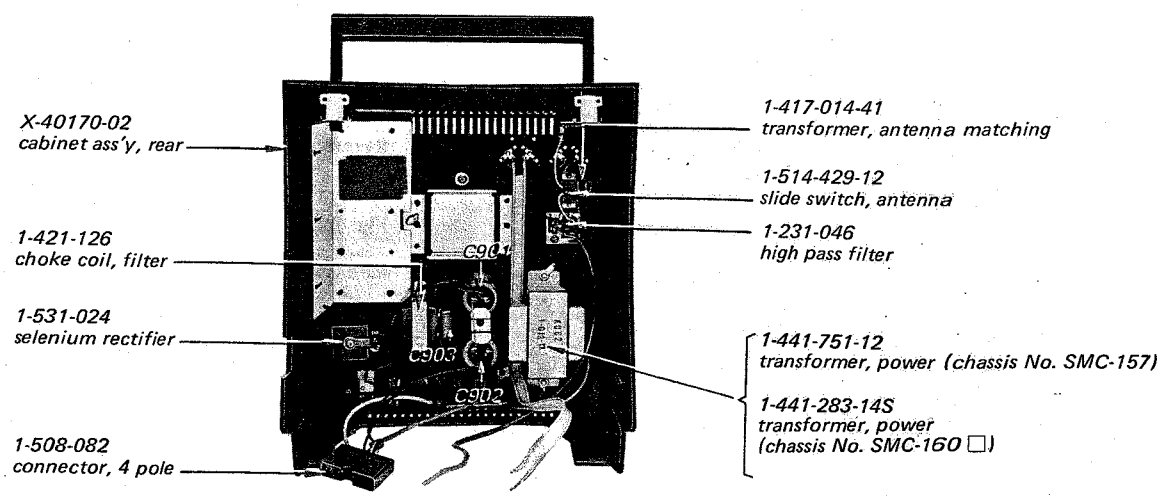



Fig. 1-6.

# SECTION 2
# DISASSEMBLY

## 2-1. REAR CABINET REMOVAL

1. Pull off the VER and HOR hold control knobs as shown in Fig. 2-1.
2. Remove the two black screws labeled A1 , A2 in Figs. 2-1 and 2-2.
3. Remove the two screws labeled B1 , B2 in Fig. 2-3.
4. Take out the rear cabinet slowly.
5. Unsolder the one coaxial cable and the one feeder cable.
6. Pull off the 4P socket as shown in Fig. 2-4.
7. Take off the rear cabinet.

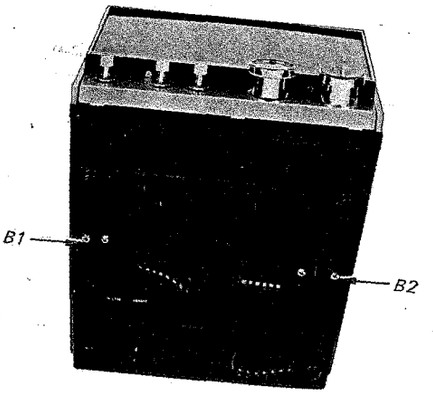



Fig. 2-3.

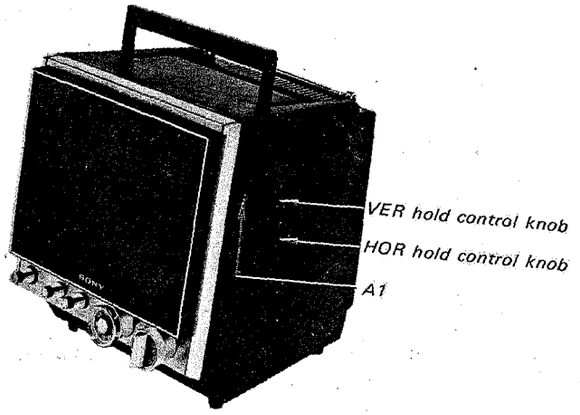



Fig. 2-1.

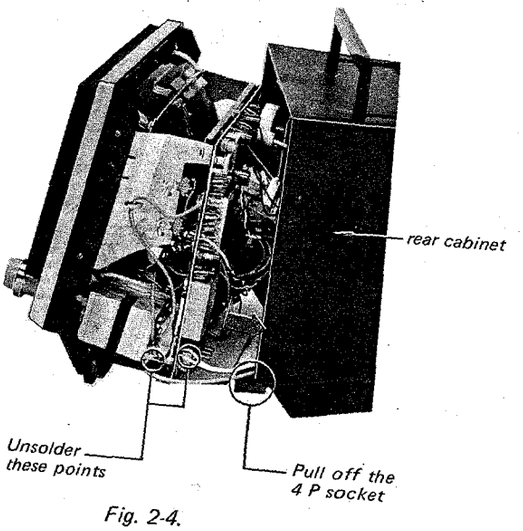



Fig. 2-4.

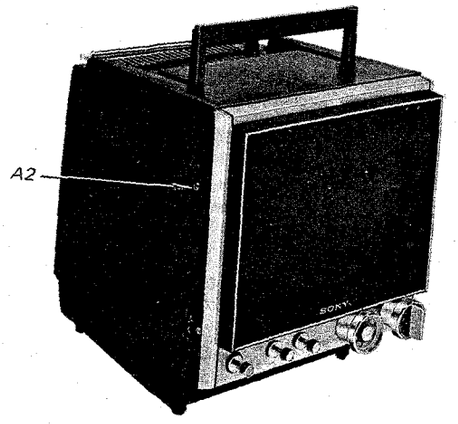



Fig. 2-2.

## 2-2. BF CIRCUIT BOARD REMOVAL

1. Remove the rear cabinet.
2. Remove the three screws labeled C1 - C3 in Fig. 2-5.
3. Remove the one screw labeled D1 in Fig. 2-6.
4. Pull off the anode cap and the picture tube socket from the picture tube.
5. Lift up the BF circuit board carefully as shown in Fig. 2-7.
6. Unsolder the all lead wires and coaxial cables as shown in Fig. 2-8 on page 8.
7. Take off the BF circuit board.

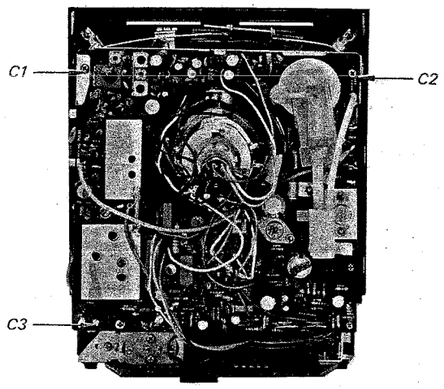



Fig. 2-5.

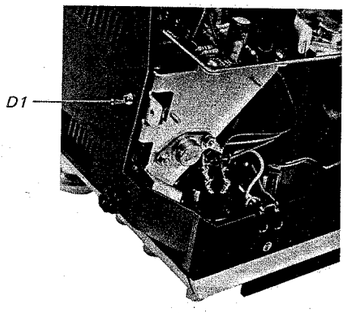



Fig. 2-6.

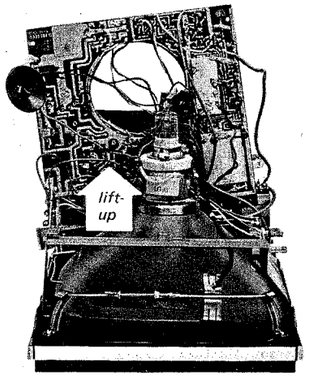



Fig. 2-7.

## 2-3. SPEAKER REMOVAL

1. Remove the rear cabinet.
2. Remove the three screws labeled E1 E3 in Fig. 2-9.
3. Take out the vertical output transistor's heat sink.
4. Remove the one screw labeled F1 in Fig. 2-10.

   Note: Hold the speaker retaining spring with finger as the screw is not flipped by the spring.
5. Pull out the speaker slowly.
6. Unsolder the two lead wires as shown in Fig. 2-11.
7. Take off the speaker.

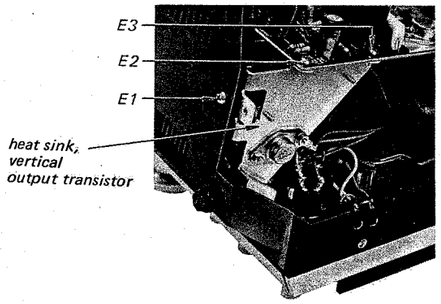



Fig. 2-9.

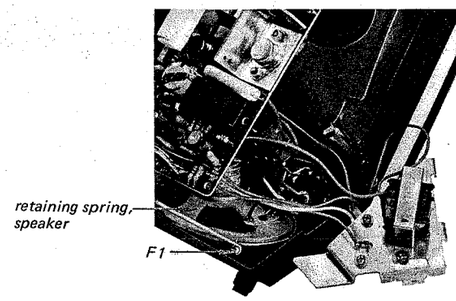



Fig. 2-10.

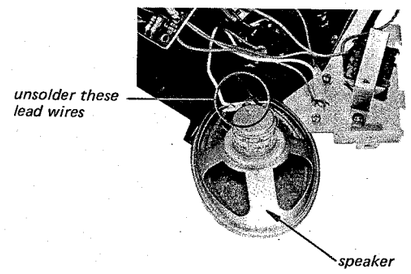



Fig. 2-11.



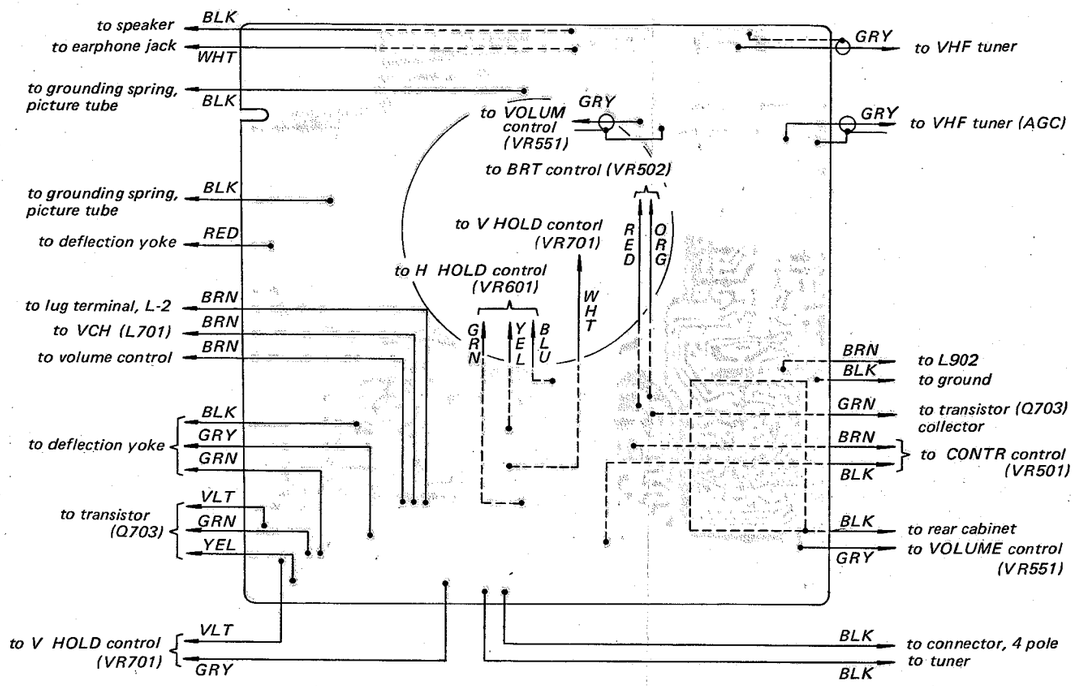



Fig. 2-8.

## 2-4. VHF TUNER REMOVAL

1. Remove the rear cabinet.
2. Pull off the VHF channel selector knob and the fine tuning knob.
3. Remove the three screws labeled G1 - G3 in Fig. 2-12.
4. Remove the one screw labeled H1 in Fig. 2-13.
5. Take out the vhf tuner mounting bracket with vhf tuner slowly.
6. Remove the three screws labeled J1 - J3 in Fig. 2-14.
7. Unsolder the serveral lead wires which are connected to the vhf tuner as shown in Fig. 2-15.
8. Take off the vhf tuner.

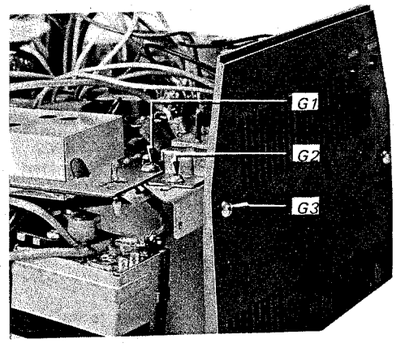



Fig. 2-12.

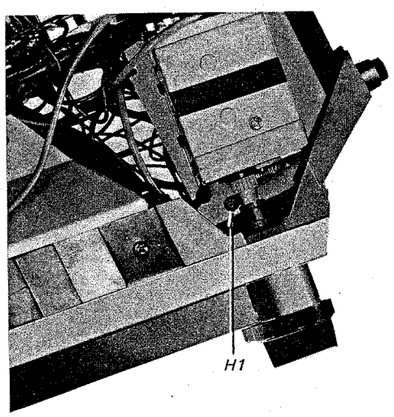



Fig. 2-13.

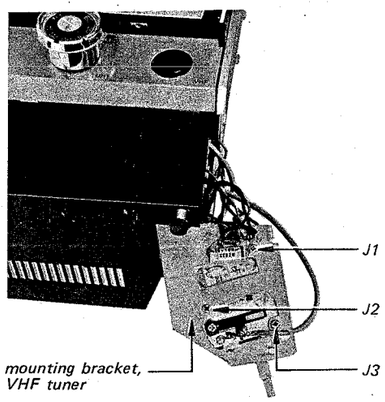



Fig. 2-14.

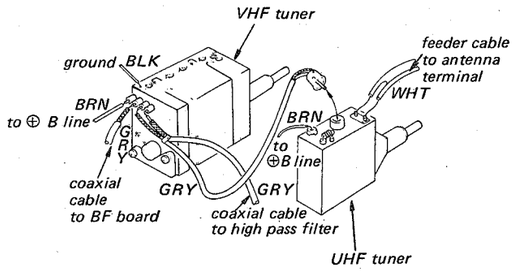



Fig. 2-15.

## 2-5. UHF TUNER REMOVAL

1. Pull off the UHF channel selector knob, UHF dial knob and the three front-panel knobs.
2. Remove the two screws labeled K1 , K2 in Fig. 2-16.
3. Take off the front panel.
4. Remove the rear cabinet and the vhf tuner.
5. Remove a hex nut (14 mm in dia) with pliers as shown in Fig. 2-17.
6. Take out the uhf tuner as shown in Fig. 2-18.
7. Unsolder the several lead wires which are connected to the uhf tuner as shown in Fig. 2-15.



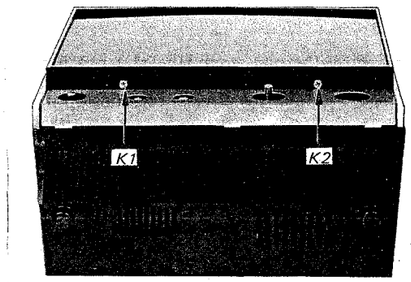



Fig. 2-16.

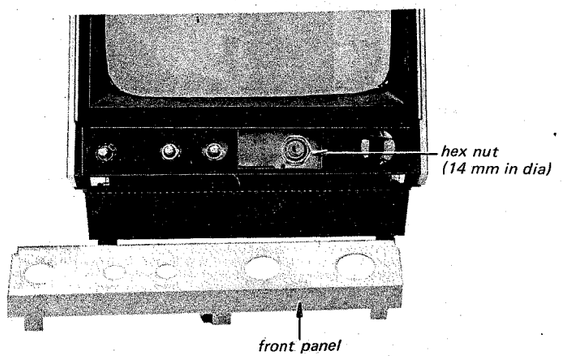



Fig. 2-17.

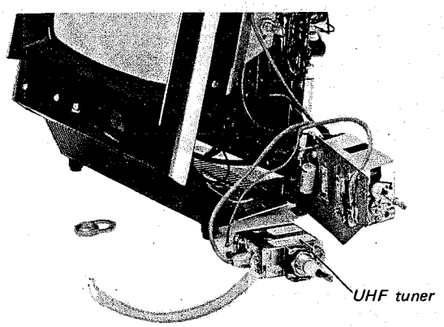



Fig. 2-18.

## 2-6. PROTECTOR REMOVAL

1. Remove the two screws labeled L1 , L2 in Fig. 2-19.
2. Protector can now be detached from the cabinet.

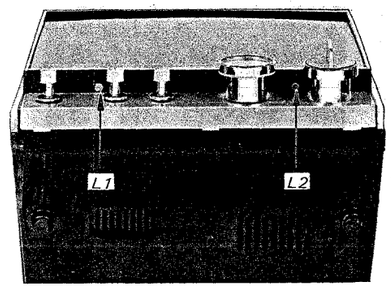



Fig. 2-19.

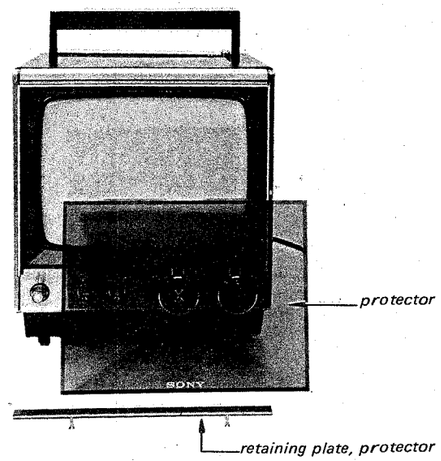



Fig. 2-20.

## 2-7. PICTURE TUBE REMOVAL

1. Remove the rear cabinet.
2. Take off the BF circuit board.
3. Pull off the picture tube socket from the picture tube.
4. Loosen the clamp band of the deflection yoke.
5. Remove the deflection yoke from the picture tube.
6. Remove the two screws labeled M1 , M2 in Fig. 2-21.
7. Take off the printed circuit board supporting plate.
8. Loosen a screw labeled N1 in Fig. 2-22.
9. Remove the four screws labeled P1 - P4 in Fig. 2-22.
10. Replace the picture tube.

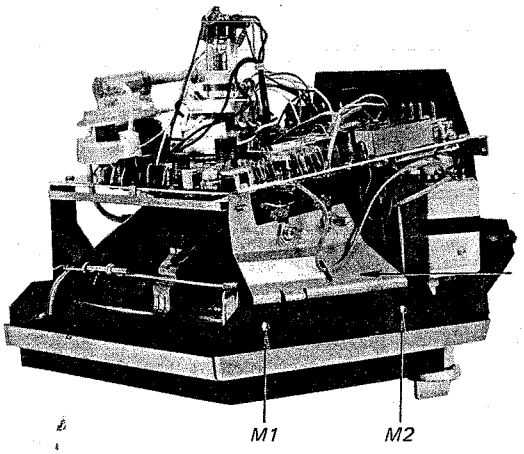



Fig. 2-21.

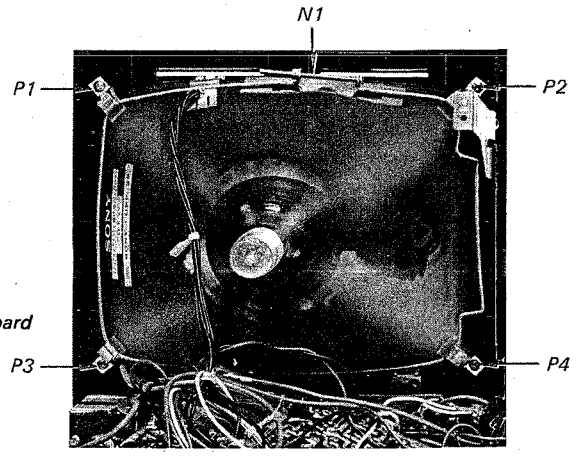



Fig. 2-22.

# SECTION 3
# CIRCUIT ADJUSTMENTS

## 3-1. VIF ADJUSTMENTS

| ITEMS | PREPARATION | EQUIPMENT CONNECTION | ADJUST | ADJUSTMENT PROCEDURE |
|---|---|---|---|---|
| 33.75MHz trap adjustment | 1. Set the channel selector to the highest inactive channel in the area.<br>2. Unsolder the keying-pulse lead.<br>3. Unsolder the VIF INPUT cable. | 1. Connect a scope to the VIF output terminals through a noise filter as shown in Fig. 3-1 on page 12.<br>2. Connect a signal generator (33.75 MHz with 1 kHz 40% AM modulation) to the point where the VIF INPUT cable was connected as shown in Fig. 3-1. | L304 (33.75MHz) | 1. Adjust the core of L304 for minimum 33.75 MHz modulated waveform on the scope.<br>2. Disconnect the signal generator and the scope.<br>3. Solder the keying-pulse lead and the VIF INPUT cable. |
| 39.75MHz, 41.25MHz and 47.25MHz trap adjustment | 1. Set the channel selector to the highest inactive channel in the area. | 1. Connect a scope to the VIF output terminals through a noise filter as shown in Fig. 3-2.<br>2. Connect a sweep generator to the tuner's test point through a 0.01 $\mu$F capacitor as shown in Fig. 3-2.<br>3. Loosely couple a marker generator to the output lead of the sweep generator. | L301 (41.25MHz)<br>L302 (47.25MHz)<br>L303 (39.75MHz) | 1. Adjust the three coils L301, L302 and L303 for minimum indication on the scope as shown in Fig. 3-3.<br>2. Disconnect the all equipments. |

| ITEMS | PREPARATION | EQUIPMENT CONNECTION | ADJUST | ADJUSTMENT PROCEDURE |
|---|---|---|---|---|
| AGC setting | 1. Set the channel selector to the highest inactive channel in the area.<br>2. Unsolder the VIF INPUT cable.<br>3. Unsolder the keying-pulse lead. | 1. Connect a 250 k-ohm rheostat across resistor R326 as shown in Fig. 3-2.<br>2. Connect a VOM between the emitter of Q301 and ground as shown in Fig. 3-2. | 250 k-ohm rheostat | 1. Set the 250 k-ohm rheostat to indicate 1.35 to 1.5 V on the VOM.<br>2. Disconnect the VOM.<br>3. Solder the VIF INPUT cable. |
| VIF response curve adjustment | | 1. Connect a sweep generator to the tuner's test point as shown in Fig. 3-2.<br>2. Loosely couple a marker generator to the output lead of the sweep generator as shown in Fig. 3-2.<br>3. Connect a scope to the VIF output terminals through a noise filter as shown in Fig. 3-2.<br>4. Set the marker generator to produce 44.0 MHz marker signal. | T302 (44.0MHz)<br>T303 (44.0MHz)<br>L207 | 4. Adjust the output of sweep generator so that the 44.0 MHz marker on the VIF response curve indicates 13.0 to 14.0Vpp on the scope.<br>5. Adjust T302 and T303 for maximum distance between the marker point and baseline.<br>6. Adjust the coil L207 in the tuner to produce the VIF response curve as shown in Fig.3-4.<br>7. Disconnect the all equipments.<br>8. Solder the keying-pulse lead. |

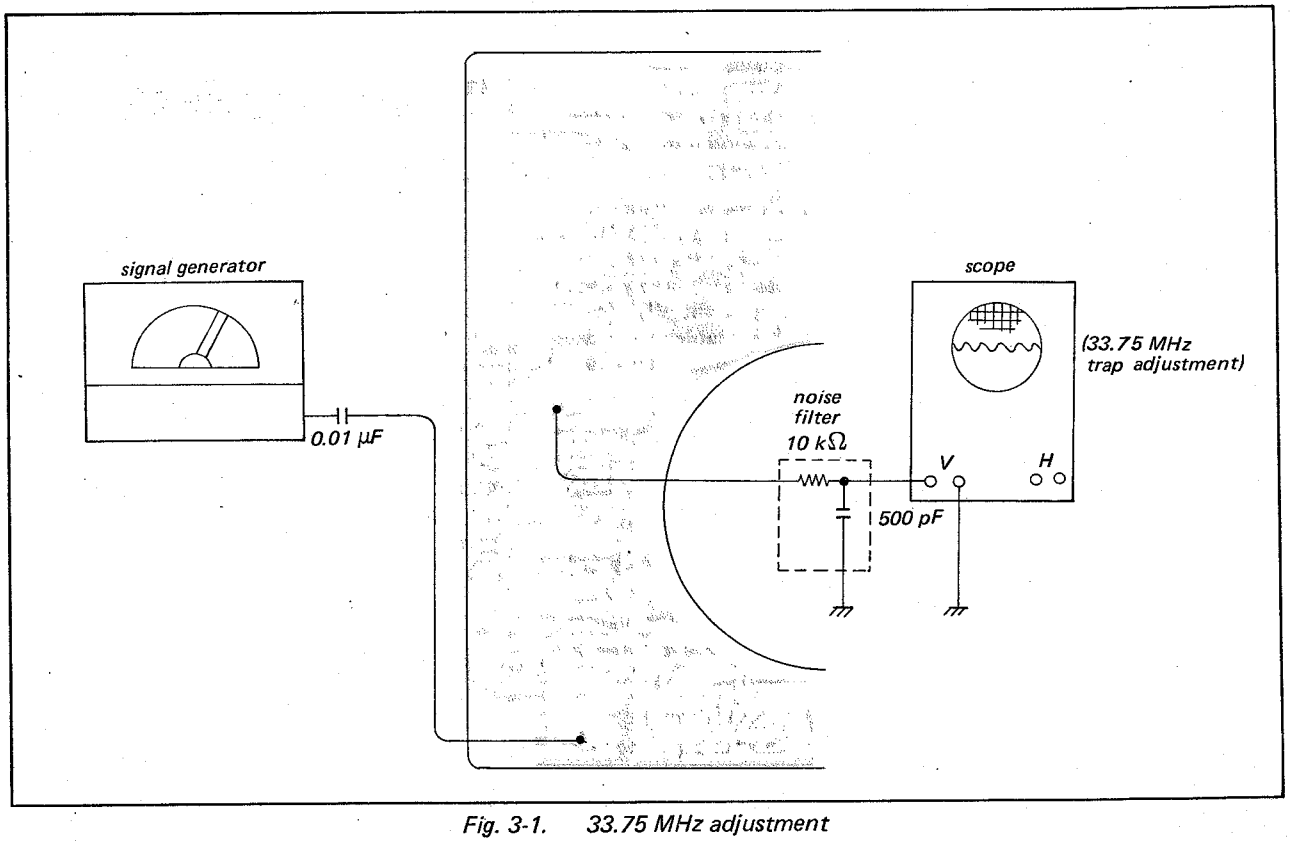



*Fig. 3-1. 33.75 MHz adjustment*

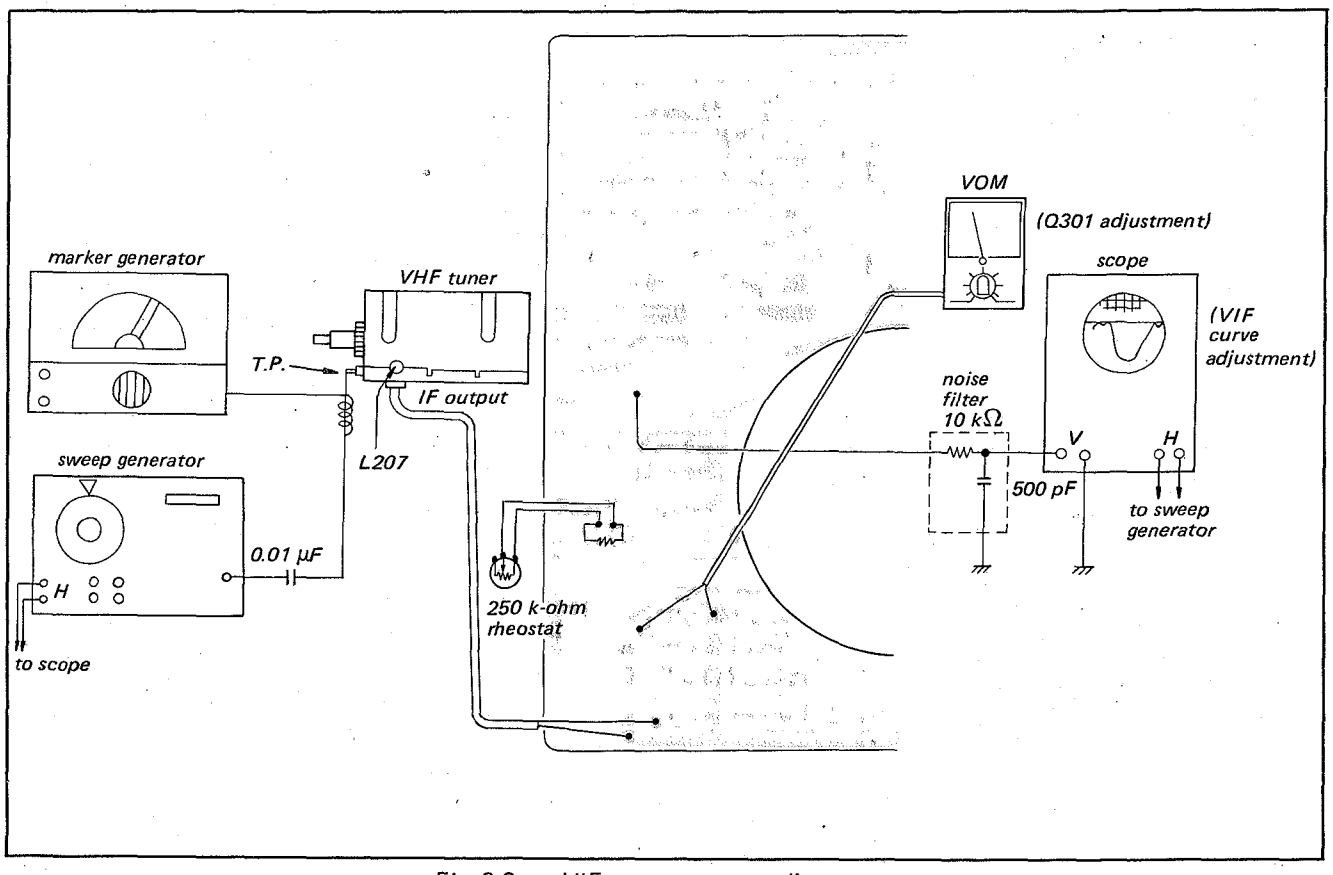



Fig. 3-2. VIF response curve adjustment

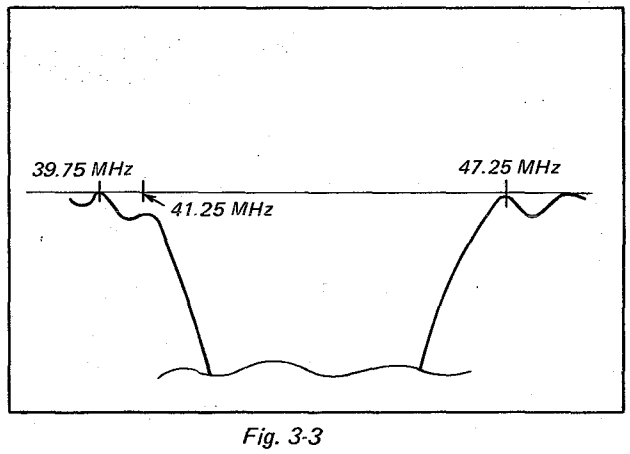



Fig. 3-3

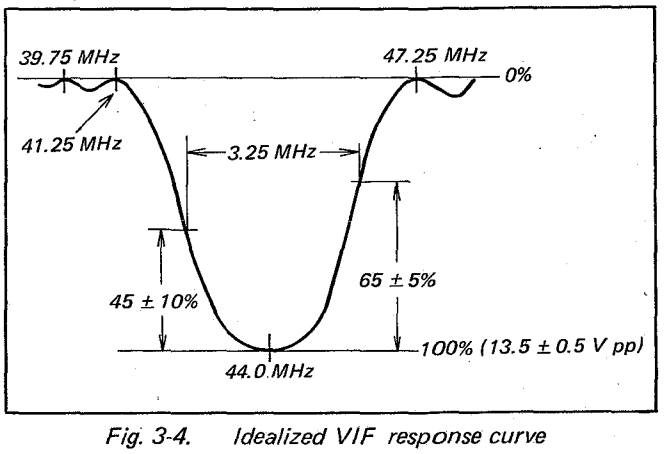



Fig. 3-4. Idealized VIF response curve

### 3-2. SIF ADJUSTMENTS

| ITEMS | PREPARATION | EQUIPMENT CONNECTION | ADJUST | ADJUSTMENT PROCEDURE |
|---|---|---|---|---|
| 4.5 MHz trap adjustment | 1. Set the channel selector to the highest inactive channel in the area.<br>2. Unsolder the VIF INPUT cable.<br>3. Set the brightness control for optimum brightness and the contrast control at fully clockwise position. | 1. Connect a 250 k-ohm rheostat across resistor. R326.<br>2. Set the 250 k-ohm rheostat to make all video noise disappear from the screen (blank raster).<br>3. Connect a signal generator to the video-detector output. | L402 (4.5MHz) | 1. Adjust L402 for minimum 4.5-MHz stripes in the picture as shown in Fig. 3-6.<br>2. Disconnect the signal generator. |
| Adjustment of the best SIF response curve | 1. Set the channel selector to the highest inactive channel in the area.<br>2. Unsolder the VIF INPUT cable.<br>3. Unsolder the SIF OUTPUT cable. | 1. Connect a sweep generator to the video-detector output as shown in Fig. 3-5.<br>2. Loosely couple a marker generator to the output lead of the sweep generator.<br>3. Turn up the sweep output signal to produce a proper S curve. | T401<br>T402<br>T403 (pink core)<br>T403 (blue core) | 1. Adjust T401 and T402 for maximum deflection on the scope.<br>2. Adjust the pink core of T403 to make the S curve symmetrical.<br>3. Adjust the blue core to cross the baseline at 4.5 MHz on the S curve.<br>4. Repeat the above steps two or three times as necessary to produce the optimum S curve as shown in Fig. 3-7.<br>5. Disconnect the all equipments. |

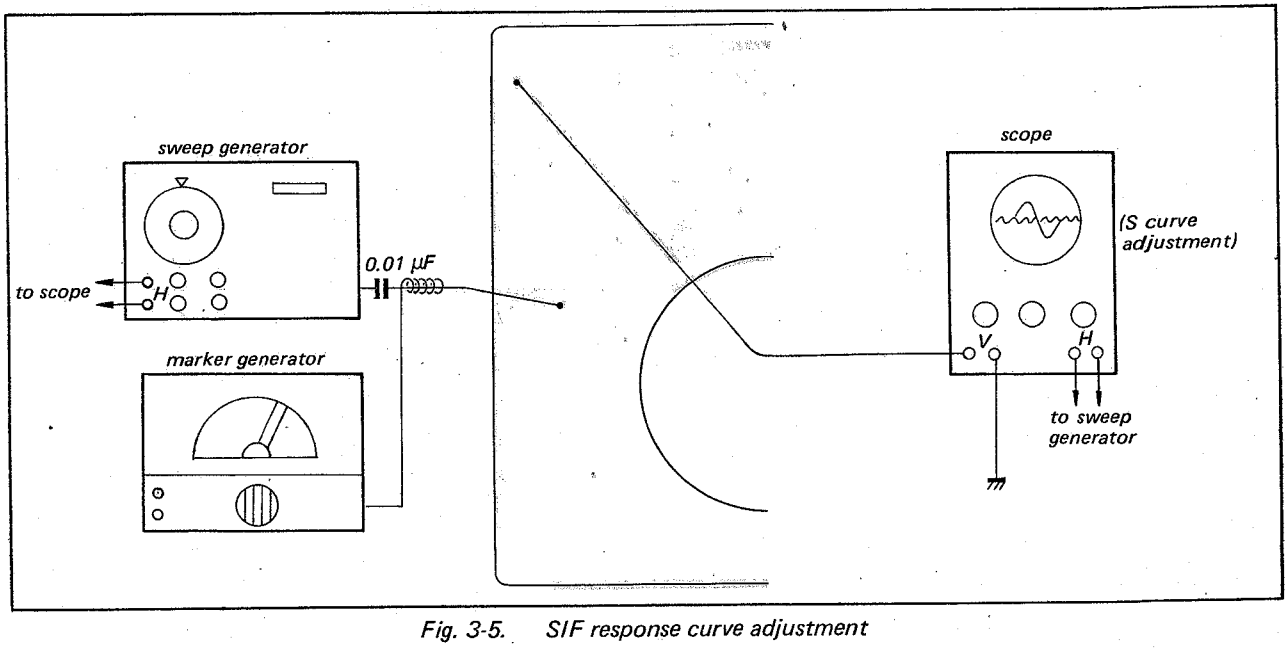



*Fig. 3-5. SIF response curve adjustment*

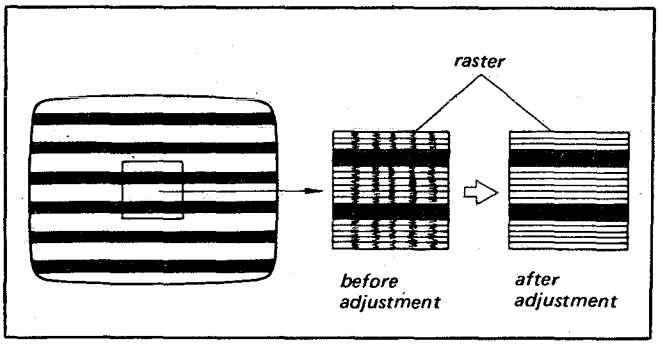



*Fig. 3-6. 4.5 MHz trap adjustment*

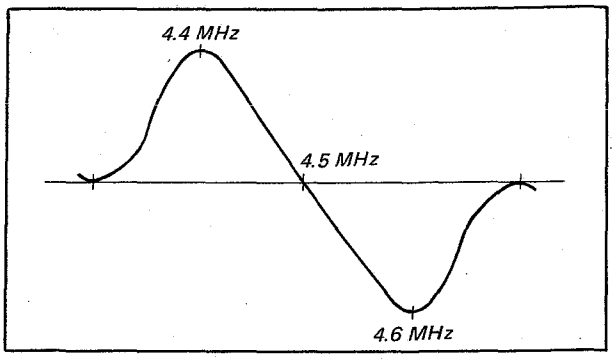



*Fig. 3-7. SIF response curve*

### 3-3. DEFLECTION CIRCUIT ADJUSTMENTS

| ITEMS | PREPARATION | EQUIPMENT CONNECTION | ADJUST | ADJUSTMENT PROCEDURE |
|---|---|---|---|---|
| Horizontal frequency adjustment | 1. Receive an off-the-air signal.<br>2. Short the both ends of horizontal stabilizing coil with short jumper.<br>3. Set the brightness and contrast controls to obtain the best picture. | | R621 | 1. Adjust R621 so that the number of diagonal bars are the same with the horizontal hold control set at both extremes of rotation. Turn the set on and off a few times to make sure that the picture locks from a cold start.<br>2. Remove the short jumper from the horizontal stabilizing coil. |
| Horizontal pulse-width adjustment | 1. Receive an off-the-air signal.<br>2. Set the horizontal hold to midrange.<br>3. Short the both ends of horizontal stabilizing coil with short jumper. | 1. Connect a scope to the emitter of the horizontal oscillator (Q801). | C805 | 1. Select valuse for C805,between 0.0022–0.01 $\mu$F to obtain the pulse-width of 12.5–13.5 $\mu$sec. See Fig. 3-8 on page 16.<br>2. Disconnect the scope.<br>3. Remove the short jumper from the horizontal stabilizing coil. |
| Horizontal stabilizing coil (HSC) adjustment | 1. Receive an off-the-air signal.<br>2. Set the horizontal hold control at mechanical center. | | HSC (L801) | 1. Adjust the core of HSC (L801) until the picture stabilizes.<br>**Note:** Recheck the horizontal pulse-width and if it is not within the range of 12.5–13.5$\mu$sec, replace C805 by trial and error to produce the correct pulse-width. |
| Horizontal size adjustment | 1. Receive an off-the-air signal.<br>2. Set the H. and V. hold controls for correct sync.<br>3. Adjust the brightness and contrast controls to obtain the best picture. | | C811 | 1. Adjust C811 while observing the picture to produce optimum picture size. |

| ITEMS | PREPARATION | EQUIPMENT CONNECTION | ADJUST | ADJUSTMENT PROCEDURE |
|---|---|---|---|---|
| Ic of Q501 | 1. Set the channel selector to an inactive channel in the area.<br>2. Check the 12 V power supply. | 1, Connect a VOM across resistor R506. | R501 | 1. Adjust resistor R501 for a reading of 25-33 V.<br>2. Disconnect the VOM. |
| Vertical height and linearity | 1. Receive the test pattern<br>2. Set horizontal and vertical hold controls for correct sync.<br>3. Set the brightness and contrast controls to obtain the best picture. | | VR702<br>VR703 | 1. Adjust linearity control VR702 and height control VR703 while observing the picture, to produce the best picture height and linearity. |
| Ic of Q703 (vertical output) | 1. Receive an off-the-air signal.<br>2. Set horizontal and vertical hold controls for correct sync. | 1. Connect a VOM across resistor R714. | R711 | 1. Adjust the resistor R711 for a reading of 0.42–0.45 V. |
| Focus adjustment | 1. Receive an off-the-air signal.<br>2. Set horizontal and vertical hold controls for correct sync.<br>3. Set the brightness and contrast controls for ordinary bright picture. | | Focus lead | 1. Try connecting the focus lead to each of the connecting point on the BF board. Connect it permanently at the point that gives best focus. |

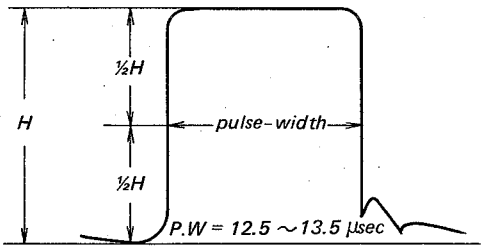


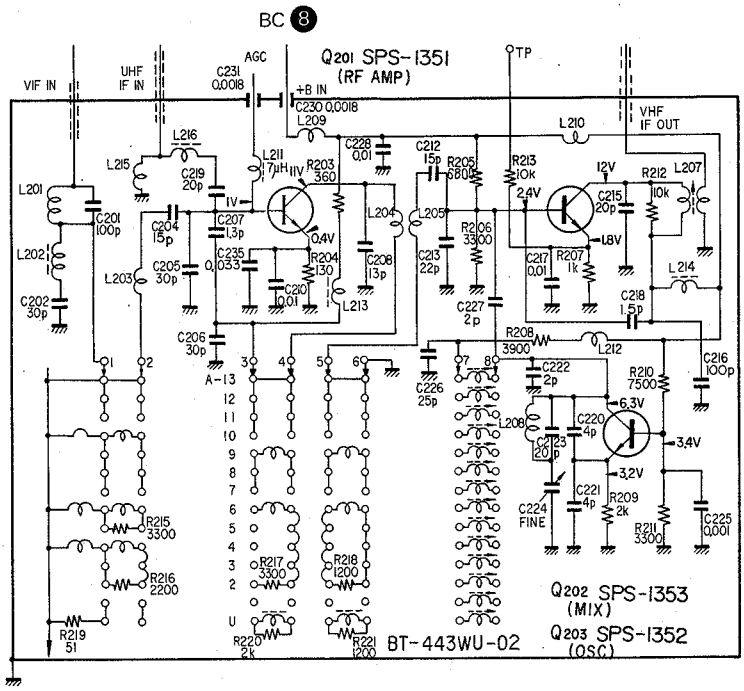

*Fig. 3-8.*

# MEMO

# SECTION 4

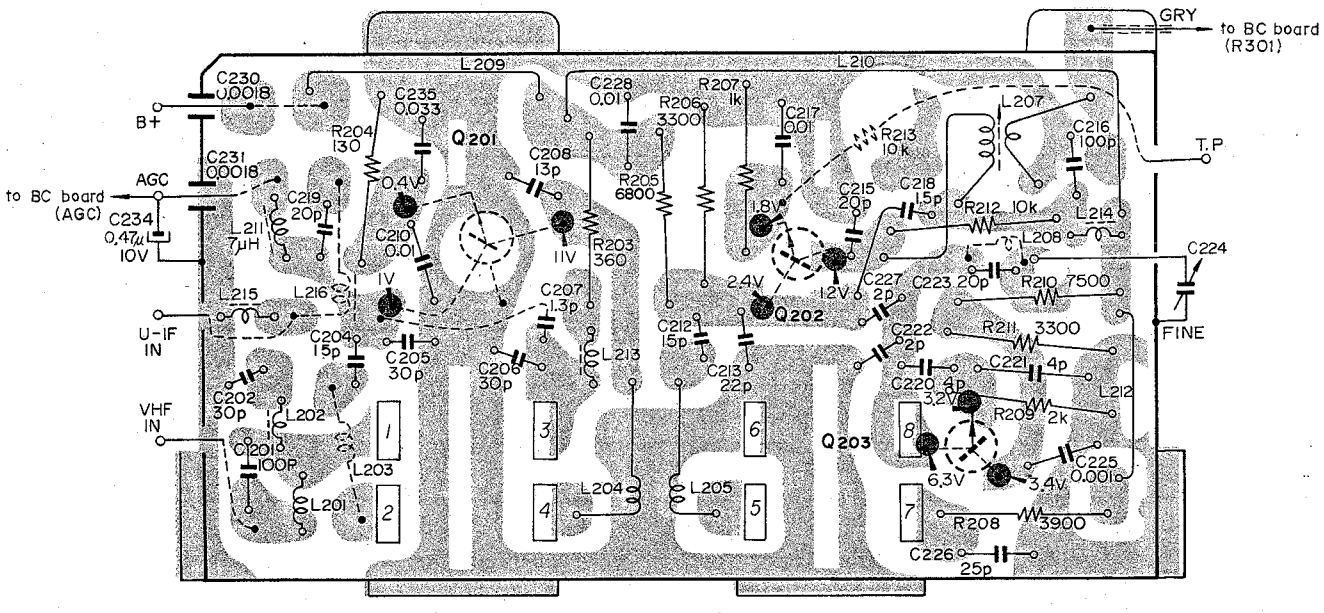
# MOUNTING AND SCHEMATIC DIAGRAMS

## 4-1. VHF TUNER SCHEMATIC DIAGRAM




## 4-2. VHF TUNER MOUNTING DIAGRAM

*– Conductor Side –*

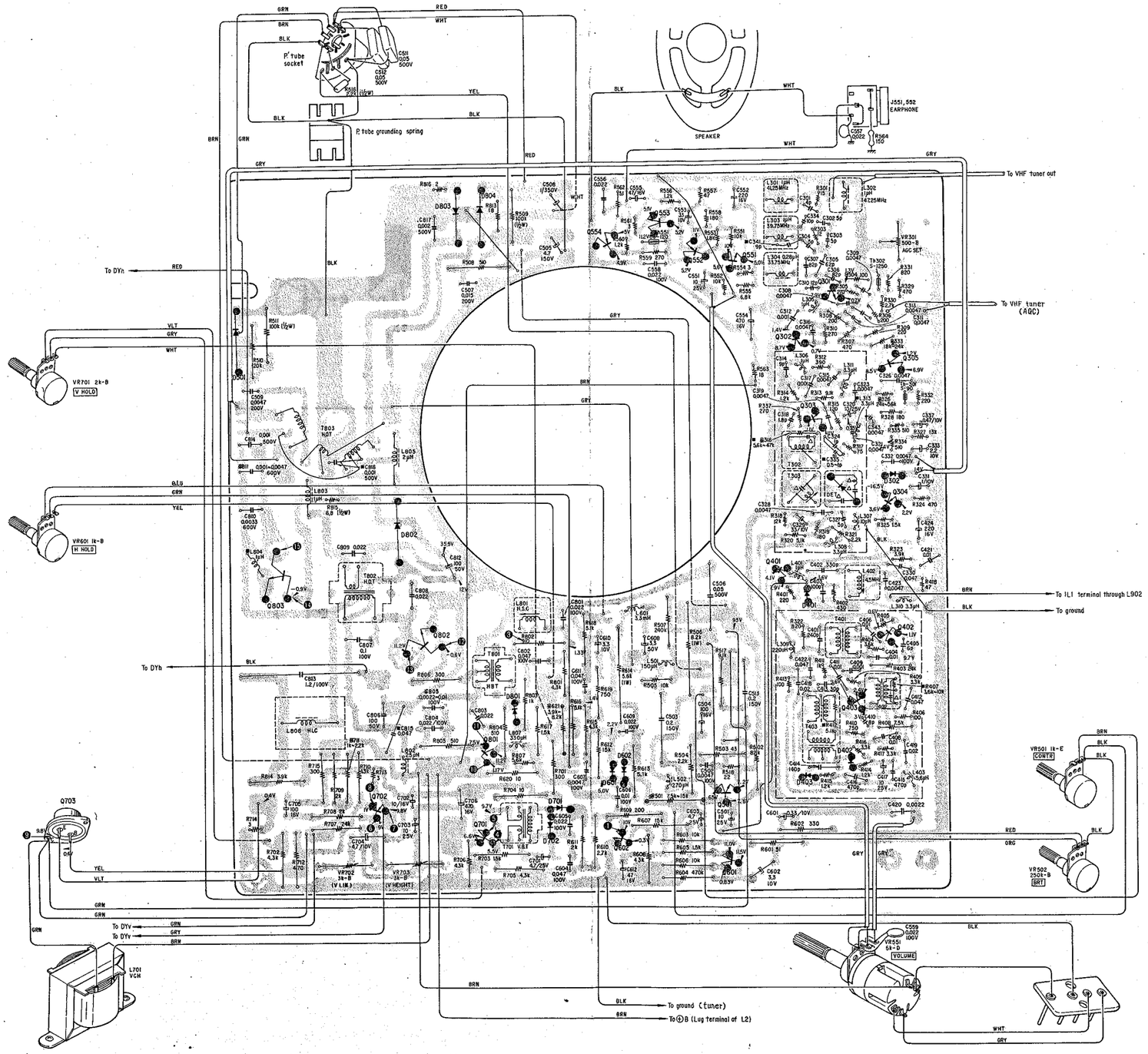



**Notes:**

1. Voltages measured from chassis to point indicated with a VOM (20 k ohm/V) with no signal input.
2. Design and specifications subject to change without notice.
3. The following components are mounted on the conductor side.
   (Q201, Q202, Q203, L202, L203, L208, L211, L216, R213, C207)

## 4-4. SIGNAL AND DEFLECTION CIRCUIT BOARD (BF)

*– Conductor Side –*

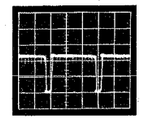


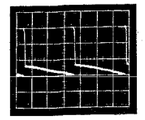

**Notes:**

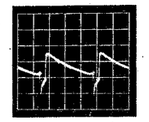
1. △ mark shows the internal components of transformer.
2. Parts marked ■ are mounted on the conductor side. (R316, 412, 407, C341, 335, 815, 816, L804, 313).
3. Resistance and capacitance values marked with ※are to be selected.
4. Voltages measured from chassis to point indicated with a VOM (20kΩ/v) and with no signal input.

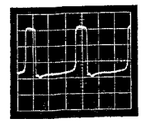


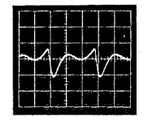


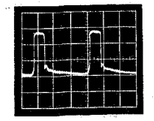

❶ - H - 5 V/cm

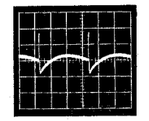

❾ - V - 20 V/cm

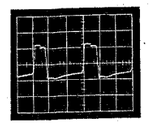

❷ - H - 5 V/cm

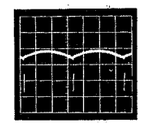

❿ - H - 5 V/cm

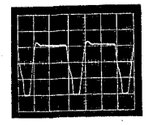

❸ - H - 1 V/cm

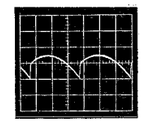

⓫ - H - 5 V/cm

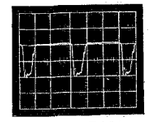

❹ - V - 2 V/cm

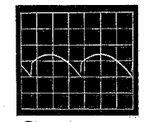

⓬ - H - 1 V/cm

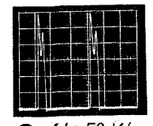

❺ - V - 2 V/cm

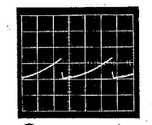

⓭ - H - 5 V/cm


❻ - V - 1 V/cm


⓮ - H - 5 V/cm

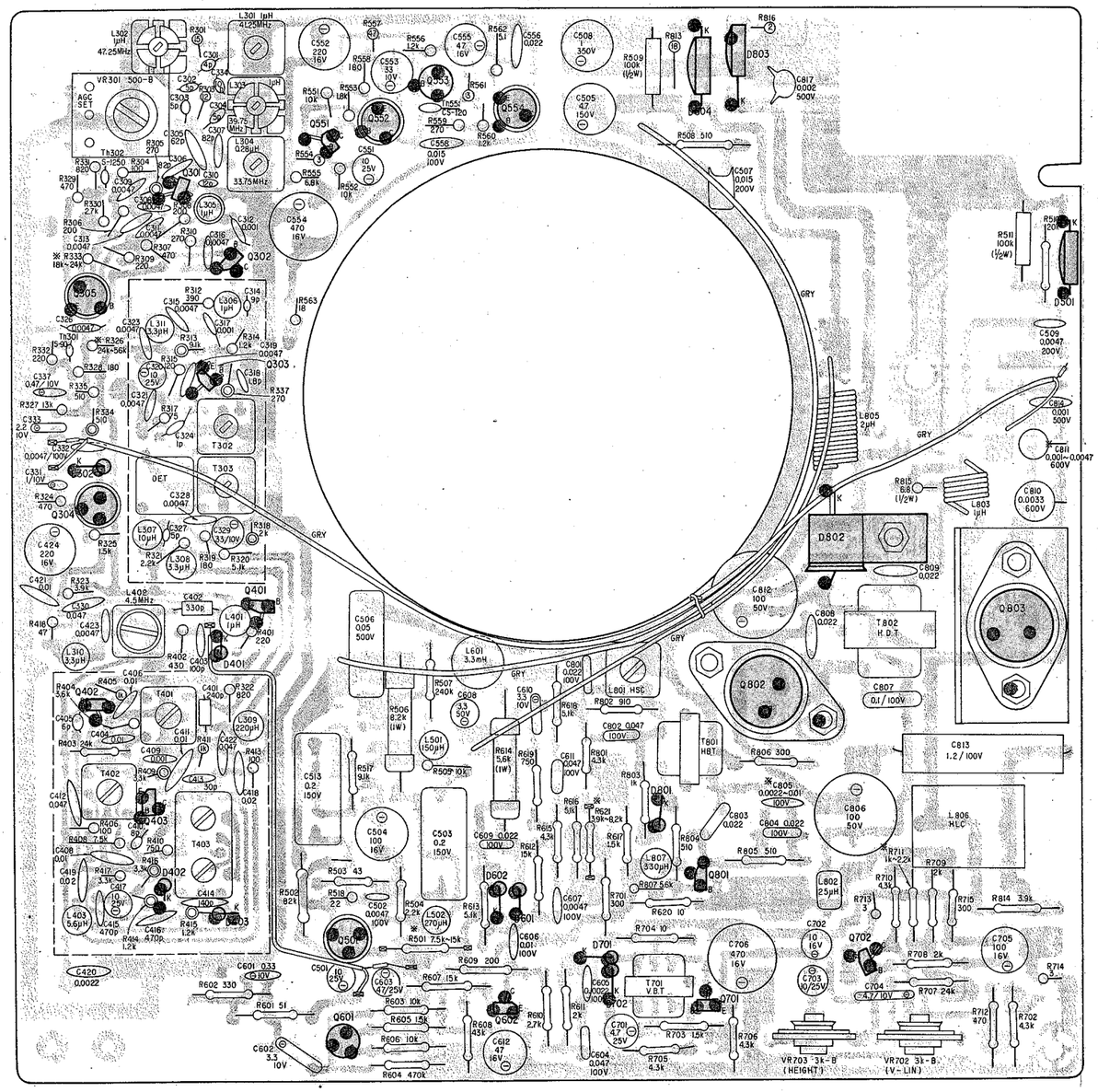

❼ - V - 1 V/cm


⓯ - H - 50 V/cm


❽ - V - 1 V/cm

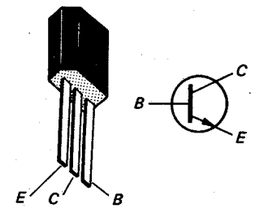
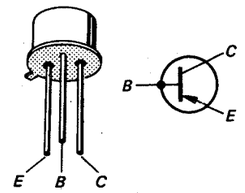
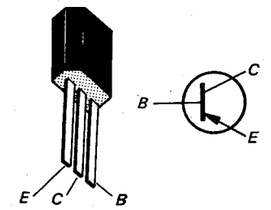
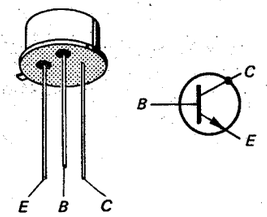
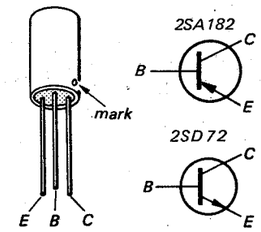
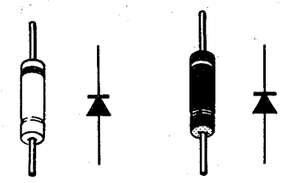
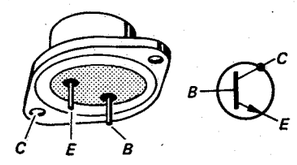
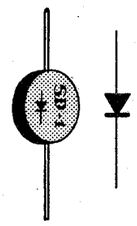
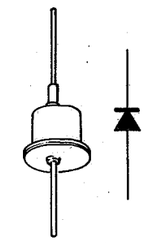
## 4-3. SIGNAL AND DEFLECTION CIRCUIT BOARD (BF)

*– Component Side –*

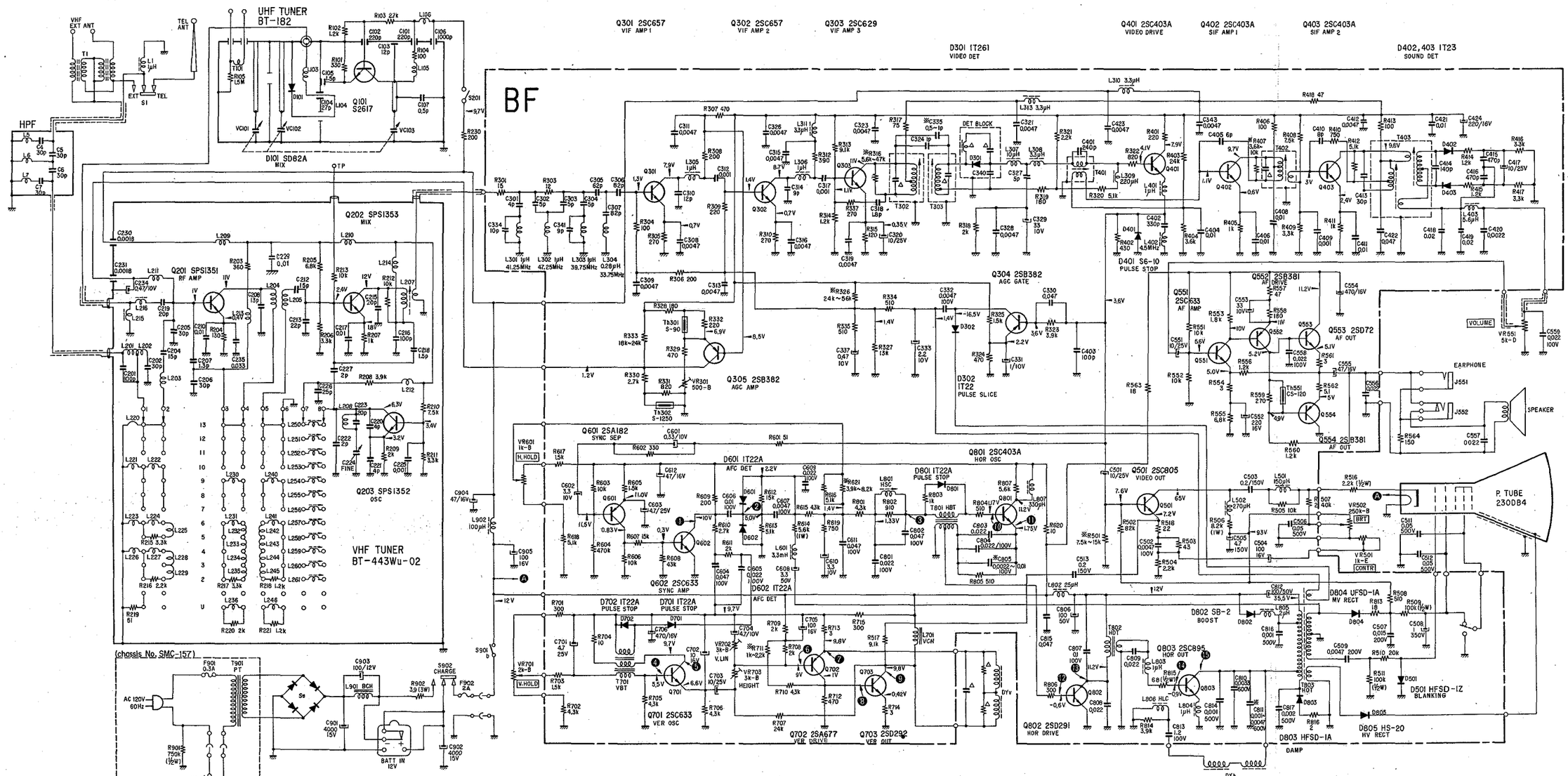





## SEMICONDUCTORS

| | | |
|---|---|---|
| *Q301, 302, 303, Q401 ~ 403, Q551, 602, 701, Q801*<br>*2SC657*<br>*2SC403A*<br>*2SC633*<br>*2SC629*<br>  | *Q304, 305, Q552, 554*<br>*2SB382*<br>*2SB381*<br>  | *Q702*<br>*2SA677*<br>  |
| *Q501,*<br>*2SC805*<br>  | *Q553, 601*<br>  | *D302, 402, 403 D601, 602, 701 D702, 801, 1T22 1T23 1T22A* *D401 S6-10*<br>  |
| *Q703, 802, 803*<br>*2SD291*<br>*2SC895*<br>*2SD292*<br>  | *D501, 803, D804,*<br>*HFSD-1Z*<br>*HFSD-1A*<br>*UFSD-1A*<br>  | *D802*<br>*SB-2*<br>  |

## 4-5. SCHEMATIC DIAGRAM



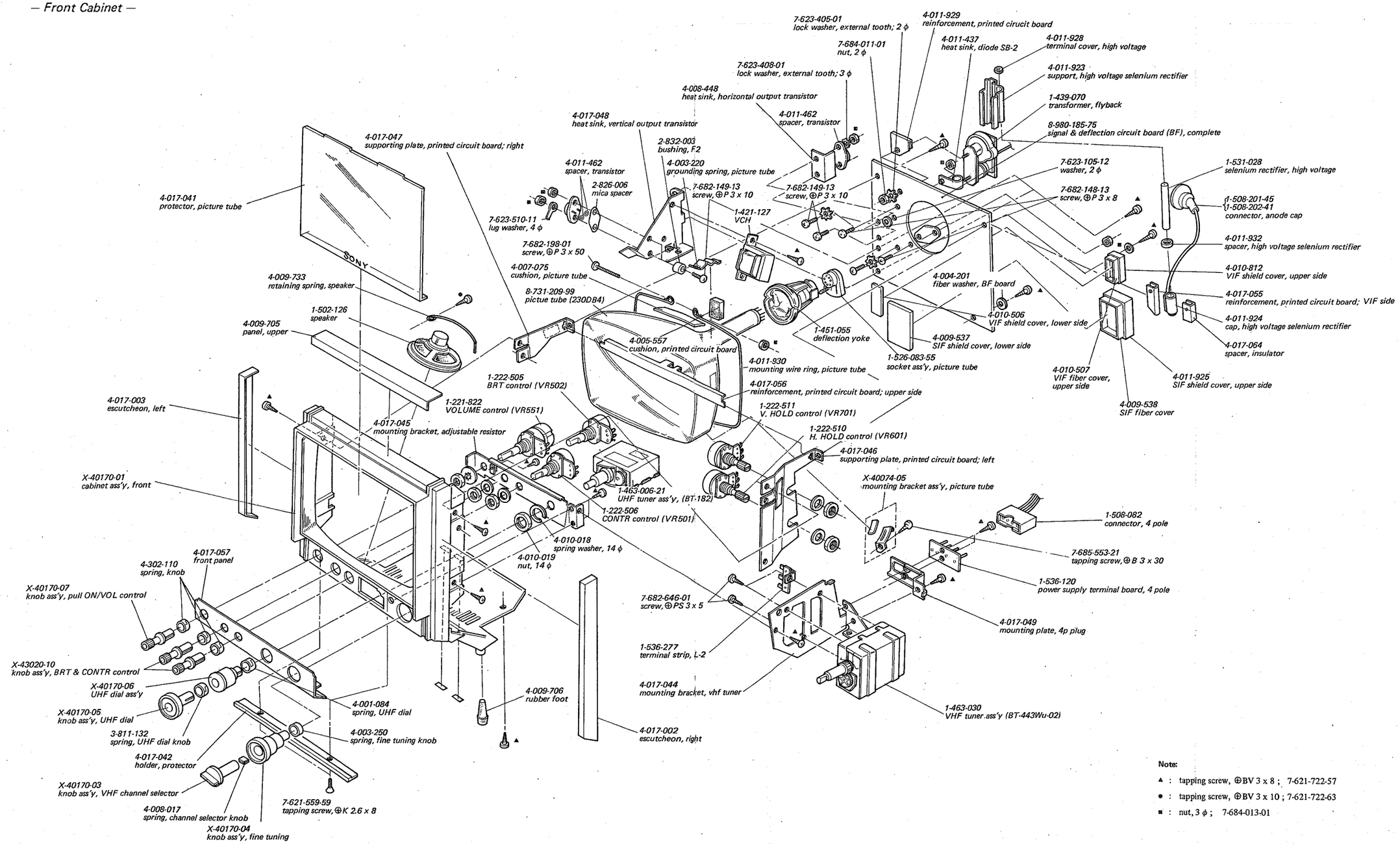

**Notes:**

1. All capacitors are 50 $\mu$F, unless otherwise specified.
2. All resistors are ¼W, unless otherwise specified.
3. △ mark shows the internal components of transformers.
4. Resistance and capacitance values marked with※ are to be selected.
5. Voltages measured from chassis to point indicated with a VOM (20 kΩ/V) and with no signal input.

# SECTION 5
# EXPLODED VIEW AND PACKING

## 5-1. EXPLODED VIEW (1)

*– Front Cabinet –*




**Note:**

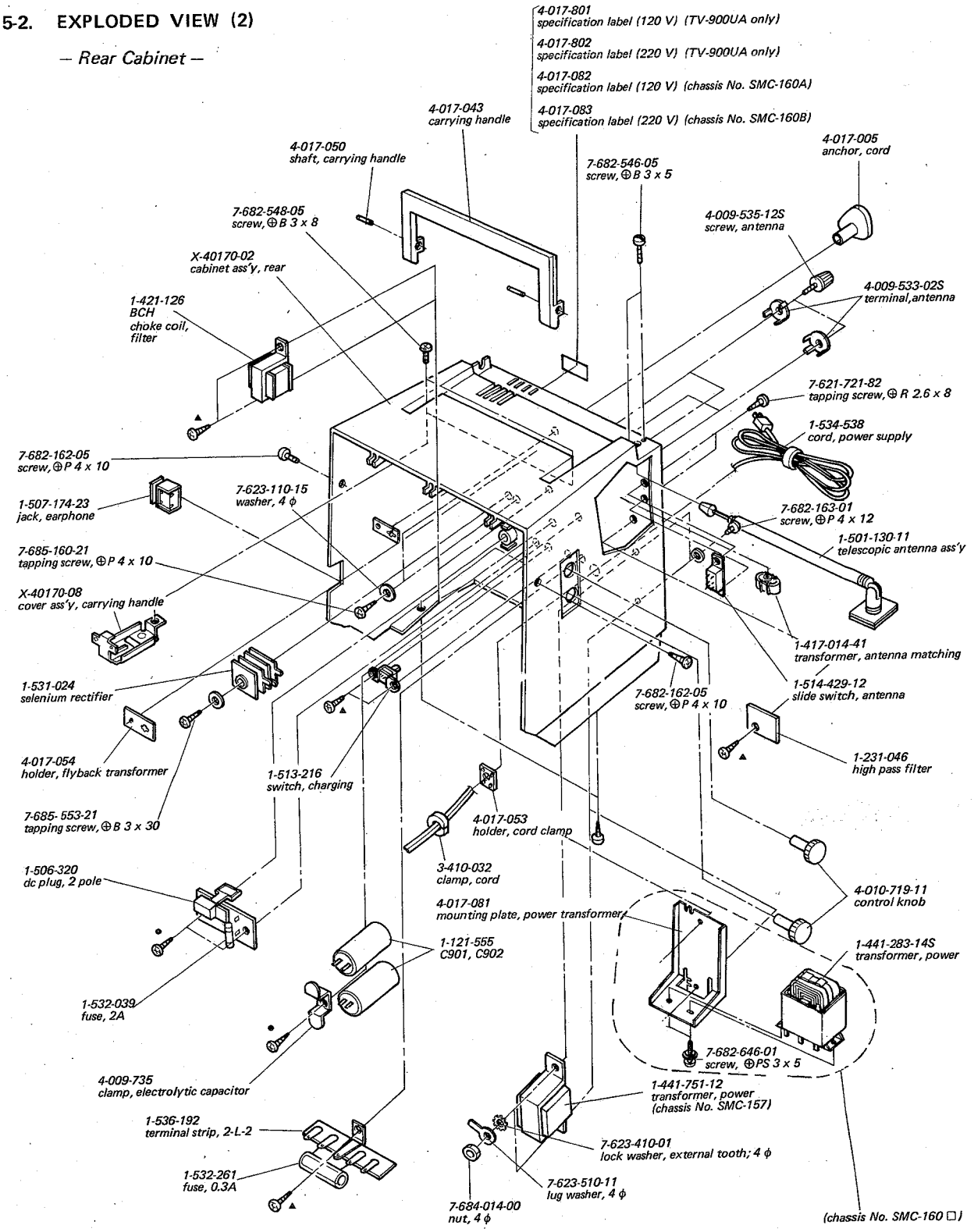
▲ : tapping screw, ⊕BV 3 x 8 ; 7-621-722-57

● : tapping screw, ⊕BV 3 x 10 ; 7-621-722-63

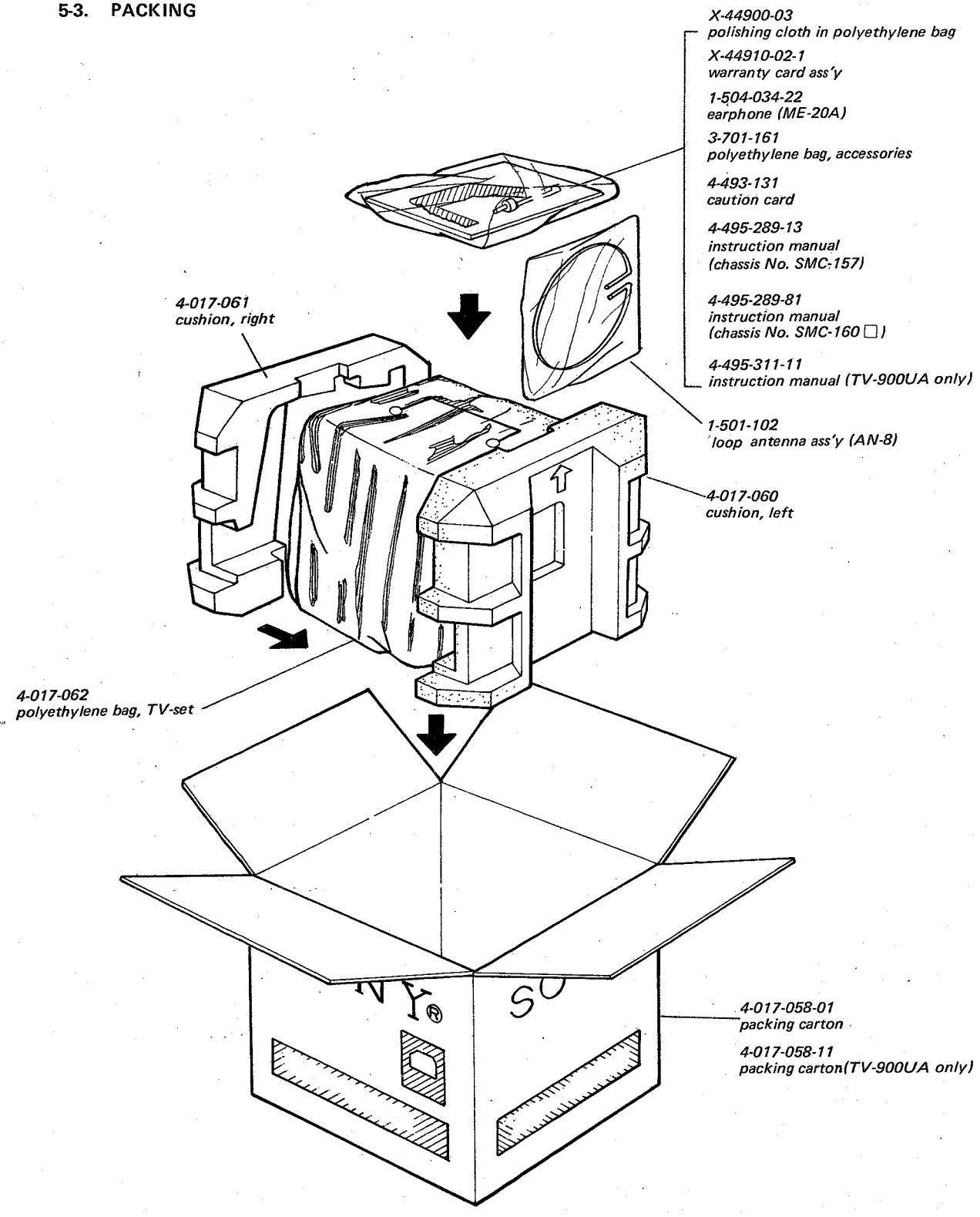
■ : nut, 3 ϕ ; 7-684-013-01

## 5-2. EXPLODED VIEW (2)

*– Rear Cabinet –*



## 5-3. PACKING


X-44900-03
polishing cloth in polyethylene bag
X-44910-02-1
warranty card ass'y
1-504-034-22
earphone (ME-20A)
3-701-161
polyethylene bag, accessories
4-493-131
caution card
4-495-289-13
instruction manual
(chassis No. SMC-157)
4-495-289-81
instruction manual
(chassis No. SMC-160 □)
4-495-311-11
instruction manual (TV-900UA only)
4-017-061
cushion, right
1-501-102
loop antenna ass'y (AN-8)
4-017-060
cushion, left
4-017-062
polyethylene bag, TV-set
4-017-058-01
packing carton
4-017-058-11
packing carton(TV-900UA only)

# SECTION 6
# ELECTRICAL PARTS LIST

| Ref. No. | Part No. | Description |
|---|---|---|
| | | **GENERAL** |
| | 1-463-030 | VHF tuner ass'y (BT-443Wu-02) |
| | 1-463-006-21 | UHF tuner ass'y (BT-182) |
| | 8-980-185-75 | signal & deflection circuit board (BF), complete |
| | | **SEMICONDUCTORS** |
| Q301 | | transistor 2SC657 |
| Q302 | | transistor 2SC657 |
| Q303 | | transistor 2SC629 |
| Q304 | | transistor 2SB382 |
| Q305 | | transistor 2SB382 |
| Q401 | | transistor 2SC403A |
| Q402 | | transistor 2SC403A |
| Q403 | | transistor 2SC403A |
| Q501 | | transistor 2SC805 |
| Q551 | | transistor 2SC633 |
| Q552 | | transistor 2SB381 |
| Q553 | | transistor 2SD72 |
| Q554 | | transistor 2SB381 |
| Q601 | | transistor 2SA182 |
| Q602 | | transistor 2SC633 |
| Q701 | | transistor 2SC633 |
| Q702 | | transistor 2SA677 |
| Q703 | | transistor 2SD292 |
| Q801 | | transistor 2SC403A |
| Q802 | | transistor 2SD291 |
| Q803 | | transistor 2SC895 |
| D302 | | diode 1T22 |
| D401 | | diode S6-10 |
| D402 | | diode 1T23 |
| D403 | | diode 1T23 |
| D501 | | diode HFSD-1Z |
| D601 | | diode 1T22A |
| D602 | | diode 1T22A |
| D701 | | diode 1T22A |
| D702 | | diode 1T22A |
| D801 | | diode 1T22A |

| Ref. No. | Part No. | Description |
|---|---|---|
| D802 | | diode SB-2 |
| D803 | | diode HFSD-1A |
| D804 | | diode UFSD-1A |
| D805 | 1-531-028 | selenium rectifier, high voltage (HS-20) |
| DET | 1-425-636 | detector block (D301 1T261) |
| Th301 | 8-690-003 | thermistor S-90 |
| Th302 | 8-690-006 | thermistor S-1250 |
| Th551 | 8-691-001 | thermistor CS-120 |
| | | **COILS** |
| L1 | 1-407-178 | 1 μH micro inductor |
| L301 | 1-409-160-31 | 41.25 MHz trap coil |
| L302 | 1-409-160-21 | 47.25 MHz trap coil |
| L303 | 1-409-160-21 | 39.75 MHz trap coil |
| L304 | 1-409-170 | 33.75 MHz trap coil |
| L305 | 1-407-178 | 1 μH micro inductor |
| L306 | 1-407-178 | 1 μH micro inductor |
| L307 | 1-407-157 | 10 μH micro inductor |
| L308 | 1-407-184 | 3.3μ H micro inductor |
| L309 | 1-407-173 | 220 μH micro inductor |
| L310 | 1-407-184 | 3.3 μH micro inductor |
| L311 | 1-407-184 | 3.3 μH micro inductor |
| L312 | | built in detector block |
| L313 | 1-407-184 | 3.3 μH micro inductor |
| L401 | 1-407-178 | 1 μH micro inductor |
| L402 | 1-409-036 | 4.5 MHZ trap coil |
| L403 | 1-407-187 | 5.6 μH micro inductor |
| L501 | 1-407-171 | 150 μH micro inductor |
| L502 | 1-407-174 | 270 μH micro inductor |
| L601 | 1-407-200 | 3.3 mH micro inductor |
| L701 | 1-421-174 | choke coil, vertical output; VCH |
| L801 | 1-413-005 | coil, stabilizing ; HSC |
| L802 | 1-421-013 | 25 μH micro inductor |
| L803 | 1-407-365 | 1 μH micro inductor |
| L804 | 1-407-365 | 1 μH micro inductor |
| L805 | 1-407-366 | 2 μH micro inductor |
| L806 | 1-459-042 | coil, horizontal linearity ; HLC |
| L807 | 1-407-175 | 330 μH micro inductor |
| L901 | 1-421-126 | choke coil, fiter ; BCH |
| L902 | 1-407-169 | 100 μH micro inductor |

| Ref. No. | Part No. | Description |
|---|---|---|
| | | **TRANSFORMERS** |
| T1 | 1-417-014-1 | transformer, antenna matching |
| T302 | 1-403-701 | transformer, video i-f |
| T303 | 1-403-727 | transformer, video i-f |
| T401 | 1-403-348 | transformer, sound i-f |
| T402 | 1-403-349 | transformer, sound i-f |
| T403 | 1-403-313-12 | transformer, sound i-f |
| T701 | 1-435-008 | transformer, vertical osc ; VBT |
| T801 | 1-435-034 | transformer, horizontal osc ; HBT |
| T802 | 1-437-019 | transformer, horizontal drive ; HDT |
| T803 | 1-439-070 | transformer, flyback ; HOT |
| T901 | 1-441-751-12 | transformer, power (chassis No. SMC-157) |
| T901 | 1-441-283-14S | transformer, power (chassis No. SMC-160 □) |
| | | **CAPACITORS** |
| C301 | 1-102-941 | 4 pF ± 0.5 pF 50 WV ceramic |
| C302 | 1-101-969 | 5 pF ± 0.25 % 50 WV ceramic |
| C303 | 1-101-969 | 5 pF ± 0.25 % 50 WV ceramic |
| C304 | 1-102-942 | 5 pF ± 0.5 pF 50 WV ceramic |
| C305 | 1-101-886 | 62 pF ± 5% 50 WV ceramic |
| C306 | 1-102-971 | 82 pF ± 5% 50 WV ceramic |
| C307 | 1-102-971 | 82 pF ± 5% 50 WV ceramic |
| C308 | 1-101-003 | 0.0047μF ± $^{100}_{0}$ % 50 WV ceramic |
| C309 | 1-101-003 | 0.0047μF ± $^{100}_{0}$ % 50 WV ceramic |
| C310 | 1-102-949 | 12 pF ± 5% 50 WV ceramic |
| C311 | 1-101-003 | 0.0047μF ± $^{100}_{0}$ % 50 WV ceramic |
| C312 | 1-101-455 | 0.001μF ± 20% 50 WV ceramic |
| C313 | 1-101-003 | 0.0047μF ± $^{100}_{0}$ % 50 WV ceramic |
| C314 | 1-102-946 | 9 pF ± 5% 50 WV ceramic |
| C315 | 1-101-003 | 0.0047μF ± $^{100}_{0}$ % 50 WV ceramic |
| C316 | 1-101-003 | 0.0047μF ± $^{100}_{0}$ % 50 WV ceramic |
| C317 | 1-101-455 | 0.001μF ± 20% 50 WV ceramic |
| C318 | 1-101-834 | 1.8 pF ± 0.2 pF 50 WV ceramic |
| C319 | 1-101-003 | 0.0047μF ± $^{100}_{0}$ % 50 WV ceramic |
| C320 | 1-121-398 | 10μF ± $^{100}_{10}$ % 25 WV electrolytic |
| C321 | 1-101-003 | 0.0047μF ± $^{100}_{0}$ % 50 WV ceramic |
| C322 | | discarded |
| C323 | 1-101-003 | 0.0047 F ± $^{100}_{0}$ % 50 WV ceramic |
| C324 | 1-102-934 | 1 pF ± 0.25pF 50 WV ceramic |
| C325 | | discarded |
| C326 | 1-101-003 | 0.0047μF ± $^{100}_{0}$ % 50 WV ceramic |
| C327 | 1-102-942 | 5 pF ± 0.5 pF 50 WV ceramic |
| C328 | 1-101-003 | 0.0047μF ± $^{100}_{0}$ % 50 WV ceramic |
| C329 | 1-121-402 | 33μF ± $^{100}_{0}$ % 10 WV electrolytic |
| C330 | 1-101-006 | 0.047μF ± $^{100}_{0}$ % 50 WV ceramic |
| C331 | 1-127-023 | 1μF ± 20% 10 WV electrolytic (alox) |
| C332 | 1-105-709-12 | 0.0047μF ± 10% 100WV mylar |

| Ref. No. | Part No. | Description |
|---|---|---|
| C333 | 1-127-024 | 2.2μF ± 20% 10 WV electrolytic (alox) |
| C334 | 1-102-946 | 10 pF ± 5% 50 WV ceramic |
| ※C335 | 1-101-837 | 0.5 pF ± 0.2 pF 50 WV ceramic |
| | 1-101-586 | 0.8 pF ± 0.2 pF 50 WV ceramic |
| | 1-102-934 | 1 pF ± 0.25 pF 50 WV ceramic |
| C336 | | discarded |
| C337 | 1-127-022 | 0.47μF ± 20% 10 WV electrolytic (alox) |
| C338 | | built in T302 |
| C339 | | built in T303 |
| C340 | | built in detector block |
| C341 | 1-102-946 | 9 pF ± 0.5 pF 50 WV ceramic |
| C342 | | built in detector block |
| C343 | 1-101-003 | 0.0047μF ± $^{100}_{0}$ % 50 WV ceramic |
| C401 | 1-103-610 | 240 pF ± 5% 50 WV polystyrene |
| C402 | 1-103-663 | 330 pF ± 10% 50 WV polystyrene |
| C403 | 1-102-973 | 100 pF ± 5% 50 WV ceramic |
| C404 | 1-101-004 | 0.01 μF ± $^{100}_{0}$ % 50 WV ceramic |
| C405 | 1-102-943 | 6 pF ± 0.5 pF 50 WV ceramic |
| C406 | 1-101-004 | 0.01μF ± $^{100}_{0}$ % 50 WV ceramic |
| C407 | | discarded |
| C408 | 1-101-004 | 0.01μF ± $^{100}_{0}$ % 50 WV ceramic |
| C409 | 1-101-455 | 0.001μF ± 20% 50 WV ceramic |
| C410 | 1-102-945 | 8 pF ± 0.5 pF 50 WV ceramic |
| C411 | 1-102-004 | 0.01μF ± $^{100}_{0}$ % 50 WV ceramic |
| C412 | 1-101-006 | 0.047μF ± $^{100}_{0}$ % 50 WV ceramic |
| C413 | 1-102-673 | 30 pF ± 5% 50 WV ceramic |
| C414 | 1-101-571 | 140 pF ± 5% 50 WV ceramic |
| C415 | 1-102-098 | 470 pF ± 20% 50 WV ceramic |
| C416 | 1-102-098 | 470 pF ± 20% 50 WV ceramic |
| C417 | 1-121-398 | 10μF ± $^{100}_{0}$ % 25 WV electrolytic |
| C418 | 1-101-492 | 0.02μF ± 20% 50 WV ceramic |
| C419 | 1-101-492 | 0.02μF ± 20% 50 WV ceramic |
| C420 | 1-101-002 | 0.0022μF ± $^{100}_{0}$ % 50 WV ceramic |
| C421 | 1-101-004 | 0.01μF ± $^{100}_{0}$ % 50 WV ceramic |
| C422 | 1-101-006 | 0.047μF ± $^{100}_{0}$ % 50 WV ceramic |
| C423 | 1-101-003 | 0.0047μF ± $^{100}_{0}$ % 50 WV ceramic |
| C424 | 1-121-358 | 220μF ± $^{100}_{10}$ % 16 WV electrolytic |
| C501 | 1-121-398 | 10μF ± $^{100}_{10}$ % 25 WV electrolytic |
| C502 | 1-105-709-12 | 0.0047μF ± 10% 100WV mylar |
| C503 | 1-113-124 | 0.2 μF ± 10% 150 WV paper |
| C504 | 1-121-415 | 100μF ± $^{100}_{10}$ % 16 WV electrolytic |
| C505 | 1-121-246 | 4.7 μF ± $^{100}_{10}$ % 150 WV electrolytic |
| C506 | 1-113-122 | 0.05μF ± 20% 500 WV paper |
| C507 | 1-105-755-12 | 0.015 μF ± 10% 200 WV mylar |
| C508 | 1-121-168 | 1μF ± $^{150}_{10}$ % 350 WV electrolytic |
| C509 | 1-105-749-12 | 0.0047 μF ± 10% 200 WV mylar |
| C510 | | discarded |
| C511 | 1-113-122 | 0.05μF ± 20% 500 WV paper |
| C512 | 1-113-122 | 0.05μF ± 20% 500 WV paper |
| C513 | 1-113-124 | 0.2μF ± 10% 150 WV paper |
| C551 | 1-121-398 | 10μF ± $^{100}_{10}$ % 25 WV electrolytic |

to be selected

| Ref. No. | Part No. | Description |
|---|---|---|
| C552 | 1-121-358 | 220μF +100 −10 % 16 WV electrolytic |
| C553 | 1-121-402 | 33μF +100 −10 % 10 WV electrolytic |
| C554 | 1-121-426 | 470μF +100 −10 % 16 WV electrolytic |
| C555 | 1-121-409 | 47μF +100 −10 % 16 WV electrolytic |
| C556 | 1-101-005 | 0.022μF +100 −0 % 50 WV ceramic |
| C557 | 1-101-005 | 0.022μF +100 −0 % 50 WV ceramic |
| C558 | 1-105-717-12 | 0.022μF ± 20% 100 WV mylar |
| C559 | 1-105-717-12 | 0.022μF ± 20% 100WV mylar |
| C601 | 1-127-021 | 0.33μF ± 20% 10 WV electrolytic (alox) |
| C602 | 1-127-025 | 3.3 μF ± 20% 10 WV electrolytic (alox) |
| C603 | 1-121-344 | 4.7 μF +150 −10 % 25 WV electrolytic |
| C604 | 1-105-721-12 | 0.047μF ± 10% 100 WV mylar |
| C605 | 1-105-717-12 | 0.022μF ± 10% 100 WV mylar |
| C606 | 1-105-713-12 | 0.01 μF ± 10% 100 WV mylar |
| C607 | 1-105-709-12 | 0.0047μF ± 10% 100 WV mylar |
| C608 | 1-121-345 | 3.3μF +150 −10 % 50 WV electrolytic |
| C609 | 1-105-717-12 | 0.022 μF ± 10% 100 WV mylar |
| C610 | 1-127-025 | 3.3μF ± 20% 10 WV electrolytic (alox) |
| C611 | 1-105-721-12 | 0.047μF ± 10% 100 WV mylar |
| C612 | 1-121-409 | 47μF +100 −10 % 16 WV electrolytic |
| C701 | 1-127-232 | 4.7μF ± 20% 25 WV electrolytic (alox) |
| C702 | 1-131-116 | 10μF ± 20% 16 WV tantalum |
| C703 | 1-121-398 | 10μF +100 −10 % 25 WV electrolytic |
| C704 | 1-127-026 | 4.7μF ± 20% 10 WV electrolytic (alox) |
| C705 | 1-121-415 | 100μF +100 −10 % 16 WV electrolytic |
| C706 | 1-121-426 | 470μF +100 −10 % 16 WV electrolytic |
| C801 | 1-105-717-12 | 0.022μF ± 10% 100 WV mylar |
| C802 | 1-105-721-12 | 0.047μF ± 20% 100 WV mylar |
| C803 | 1-129-776 | 0.022 μF ± 5% 50 WV polypropylene film |
| C804 | 1-105-717-12 | 0.022μF ± 10% 100 WV mylar |
| ※C805 | 1-105-705-12 | 0.0022μF ± 10% 100 WV mylar |
| | 1-105-707-12 | 0.0033μF ± 10% 100 WV mylar |
| | 1-105-709-12 | 0.0047μF ± 10% 100 WV mylar |
| | 1-105-711-12 | 0.0068μF ± 10% 100 WV mylar |
| | 1-105-713-12 | 0.01μF ± 10% 100 WV mylar |
| C806 | 1-121-703 | 100μF +100 −10 % 50 WV electrolytic |
| C807 | 1-105-725-12 | 0.1μF ± 10% 100 WV mylar |
| C808 | 1-101-005 | 0.022μF +100 −0 % 50 WV ceramic |
| C809 | 1-101-005 | 0.022μF +100 −0 % 50 WV ceramic |
| C810 | 1-105-464-16 | 0.0033μF ± 10% 600 WV mylar |
| ※C811 | 1-105-461-16 | 0.001μF ± 10% 600 WV mylar |
| | 1-105-462-16 | 0.0015μF ± 10% 600 WV mylar |
| | 1-105-463-16 | 0.0022μF ± 10% 600 WV mylar |
| | 1-105-464-16 | 0.0033μF ± 10% 600 WV mylar |
| | 1-105-465-16 | 0.0047μF ± 10% 600 WV mylar |
| C812 | 1-121-703 | 100μF +100 −10 % 50 WV electrolytic |
| C813 | 1-129-498 | 1.2μF ± 10% 100 WV polypropylene film |
| C814 | 1-101-845 | 0.001μF +100 −0 % 500 WV ceramic |
| C815 | 1-101-006 | 0.047μF +100 −0 % 50 WV ceramic |
| C816 | 1-101-845 | 0.001μF +100 −0 % 500 WV ceramic |
| C817 | 1-101-821 | 0.002μF +100 −0 % 500 WV ceramic |
| C901 | 1-121-555 | 4000μF +100 −15 % 15 WV electrolytic |
| C902 | 1-121-555 | 4000μF +100 −15 % 15 WV electrolytic |
| C903 | 1-119-101 | 100μF +30 −10 % 12 WV electrolytic |
| C903 | 1-119-235 | 200 μF ± 20 % 10 WV electrolytic (TV-900UA only) |
| C904 | 1-121-409 | 47μF +100 −10 % 16 WV electrolytic |
| C905 | 1-119-106 | 100μF ± 20% 16 WV electrolytic |

## RESISTORS

(All resistors are ERD14V ±5% carbon, unless otherwise specified).

| | | | |
|---|---|---|---|
| R301 | 1-248-629 | 15 Ω | |
| R302 | | discarded | |
| R303 | 1-248-627 | 12 Ω | |
| R304 | 1-248-649 | 100 Ω | |
| R305 | 1-248-659 | 270 Ω | |
| R306 | 1-248-656 | 200 Ω | |
| R307 | 1-248-665 | 470 Ω | |
| R308 | 1-248-656 | 200 Ω | |
| R309 | 1-248-657 | 220 Ω | |
| R310 | 1-248-659 | 270 Ω | |
| R311 | | discarded | |
| R312 | 1-248-663 | 390 Ω | |
| R313 | 1-248-696 | 9.1 kΩ | |
| R314 | 1-248-675 | 1.2 kΩ | |
| R315 | 1-248-651 | 120 Ω | |
| ※R316 | 1-244-491 | 5.6 kΩ | RD 1/8 P |
| | 1-244-493 | 6.8 kΩ | RD 1/8 P |
| | 1-244-495 | 8.2 kΩ | RD 1/8 P |
| | 1-244-497 | 10 kΩ | RD 1/8 P |
| | 1-244-499 | 12 kΩ | RD 1/8 P |
| | 1-244-501 | 15 kΩ | RD 1/8 P |
| | 1-244-503 | 18 kΩ | RD 1/8 P |
| | 1-244-505 | 22 kΩ | RD 1/8 P |
| | 1-244-507 | 27 kΩ | RD 1/8 P |
| | 1-244-509 | 33 kΩ | RD 1/8 P |
| | 1-244-510 | 36 kΩ | RD 1/8 P |
| | 1-244-513 | 47 kΩ | RD 1/8 P |
| R317 | 1-248-646 | 75 Ω | |
| R318 | 1-248-680 | 2 k Ω | |
| R319 | 1-248-655 | 180 Ω | |
| R320 | 1-248-690 | 5.1 kΩ | |
| R321 | 1-248-681 | 2.2 kΩ | |
| R322 | 1-248-671 | 820 Ω | |
| R323 | 1-248-687 | 3.9 kΩ | |
| R324 | 1-248-665 | 470 Ω | |
| R325 | 1-248-677 | 1.5 kΩ | |
| ※R326 | 1-248-706 | 24 kΩ | |
| | 1-248-707 | 27 kΩ | |
| | 1-248-708 | 30 kΩ | |
| | 1-248-709 | 33 kΩ | |
| | 1-248-710 | 36 kΩ | |

※to be selected

| Ref. No. | Part No. | | Description |
|---|---|---|---|
| ※R326 | 1-248-711 | 39 kΩ | |
| | 1-248-712 | 43 kΩ | |
| | 1-248-713 | 47 kΩ | |
| | 1-248-714 | 51 kΩ | |
| | 1-248-715 | 56 kΩ | |
| R327 | 1-248-700 | 13 kΩ | |
| R328 | 1-248-655 | 180 Ω | |
| R329 | 1-248-665 | 470Ω | |
| R330 | 1-248-683 | 2.7 kΩ | |
| R331 | 1-248-671 | 820 Ω | |
| R332 | 1-248-657 | 220Ω | |
| ※R333 | 1-248-703 | 18 kΩ | |
| | 1-248-704 | 20 kΩ | |
| | 1-248-705 | 22 kΩ | |
| | 1-248-706 | 24 kΩ | |
| R334 | 1-248-666 | 510 Ω | |
| R335 | 1-248-666 | 510 Ω | |
| R336 | | discarded | |
| R337 | 1-248-659 | 270 Ω | |
| R401 | 1-248-657 | 220 Ω | |
| R402 | 1-248-664 | 430 Ω | |
| R403 | 1-246-706 | 24 kΩ | ERD 14T |
| R404 | 1-248-686 | 3.6 kΩ | |
| R405 | 1-248-673 | 1 kΩ | |
| R406 | 1-248-649 | 100 Ω | |
| ※R407 | 1-244-486 | 3.6 kΩ | RD 1/8 P |
| | 1-244-487 | 3.9 kΩ | RD 1/8 P |
| | 1-244-489 | 4.7 kΩ | RD 1/8 P |
| | 1-244-490 | 5.1 kΩ | RD 1/8 P |
| | 1-244-491 | 5.6 kΩ | RD 1/8 P |
| | 1-244-493 | 6.8 kΩ | RD 1/8 P |
| | 1-244-495 | 8.2 kΩ | RD 1/8 P |
| | 1-244-497 | 10 kΩ | RD 1/8 P |
| R408 | 1-248-694 | 7.5 kΩ | |
| R409 | 1-248-685 | 3.3 kΩ | |
| R410 | 1-248-670 | 750 Ω | |
| R411 | 1-248-673 | 1 kΩ | |
| R412 | 1-204-345 | 5.1 kΩ | RD 1/16 L |
| R413 | 1-248-649 | 100 Ω | |
| R414 | 1-248-675 | 1.2 kΩ | |
| R415 | 1-248-675 | 1.2 kΩ | |
| R416 | 1-248-685 | 3.3 kΩ | |
| R417 | 1-248-685 | 3.3 kΩ | |
| R418 | 1-248-641 | 47 Ω | |
| ※R501 | 1-246-694 | 7.5 kΩ | ERD14T |
| | 1-246-695 | 8.2 kΩ | ERD14T |
| | 1-246-697 | 10 kΩ | ERD14T |
| | 1-246-699 | 12 kΩ | ERD14T |
| | 1-246-701 | 15 kΩ | ERD14T |
| R502 | 1-250-919 | 82 kΩ | RD12T |
| R503 | 1-246-640 | 43 Ω | ERD14T |

※ to be selected

| Ref. No. | Part No. | | Description |
|---|---|---|---|
| R504 | 1-246-681 | 2.2 kΩ | ERD14T |
| R505 | 1-248-697 | 10 kΩ | |
| R506 | 1-211-087 | 8.2 kΩ | RD1P |
| R507 | 1-246-730 | 240 kΩ | ERD14T |
| R508 | 1-246-666 | 510 Ω | ERD14T |
| R509 | 1-202-621-51 | 100 kΩ | ± 20% RC½ composition |
| R510 | 1-246-704 | 20 kΩ | ERD14T |
| R511 | 1-202-621-51 | 100 kΩ | ± 20% RC½ composition |
| R517 | 1-246-696 | 9.1 kΩ | ERD14T |
| R518 | 1-248-633 | 22 Ω | |
| R551 | 1-248-697 | 10 kΩ | |
| R552 | 1-248-697 | 10 kΩ | |
| R553 | 1-248-679 | 1.8 kΩ | |
| R554 | 1-248-612 | 3 Ω | |
| R555 | 1-248-693 | 6.8 kΩ | |
| R556 | 1-248-675 | 1.2 kΩ | |
| R557 | 1-248-641 | 47 Ω | |
| R558 | 1-248-655 | 180 Ω | |
| R559 | 1-248-659 | 270 Ω | |
| R560 | 1-248-675 | 1.2 kΩ | |
| R561 | 1-248-612 | 3 Ω | |
| R562 | 1-248-618 | 5.1 Ω | |
| R563 | 1-248-631 | 18 Ω | |
| R564 | 1-246-653 | 150 Ω | ERD14T |
| R601 | 1-246-642 | 51 Ω | ERD14T |
| R602 | 1-246-661 | 330 Ω | ERD14T |
| R603 | 1-246-697 | 10 kΩ | ERD14T |
| R604 | 1-246-737 | 470 kΩ | ERD14T |
| R605 | 1-246-677 | 1.5 kΩ | ERD14T |
| R606 | 1-246-697 | 10 kΩ | ERD14T |
| R607 | 1-246-701 | 15 kΩ | ERD14T |
| R608 | 1-246-712 | 43 kΩ | ERD14T |
| R609 | 1-246-656 | 200 Ω | ERD14T |
| R610 | 1-246-683 | 2.7 kΩ | ERD14T |
| R611 | 1-246-680 | 2 kΩ | ERD14T |
| R612 | 1-246-701 | 15 kΩ | ERD14T |
| R613 | 1-246-690 | 5.1 kΩ | ERD14T |
| R614 | 1-211-074 | 5.6 kΩ | RD1P |
| R615 | 1-246-688 | 4.3 kΩ | ERD14T |
| R616 | 1-246-690 | 5.1 kΩ | ERD14T |
| R617 | 1-246-677 | 1.5 kΩ | ERD14T |
| R618 | 1-246-690 | 5.1 kΩ | ERD14T |
| R619 | 1-246-670 | 750 Ω | ERD14T |
| R620 | 1-246-625 | 10 Ω | ERD14T |
| ※R621 | 1-246-687 | 3.9 kΩ | ERD14T |
| | 1-246-688 | 4.3 kΩ | ERD14T |
| | 1-246-689 | 4.7 kΩ | ERD14T |
| | 1-246-690 | 5.1 kΩ | ERD14T |
| | 1-246-691 | 5.6 kΩ | ERD14T |
| | 1-246-692 | 6.2 kΩ | ERD14T |
| | 1-246-693 | 6.8 kΩ | ERD14T |
| | 1-246-694 | 7.5 kΩ | ERD14T |

| Ref. No. | Part No. | | Description | |
|---|---|---|---|---|
| ※R621 | 1-246-695 | 8.2 k Ω | ERD14T | |
| R701 | 1-246-660 | 300 Ω | ERD14T | |
| R702 | 1-246-688 | 4.3 kΩ | ERD14T | |
| R703 | 1-246-677 | 1.5 kΩ | ERD14T | |
| R704 | 1-246-625 | 10 Ω | ERD14T | |
| R705 | 1-246-688 | 4.3 kΩ | ERD14T | |
| R706 | 1-246-688 | 4.3 kΩ | ERD14T | |
| R707 | 1-246-706 | 24 kΩ | ERD14T | |
| R708 | 1-246-680 | 2 kΩ | ERD14T | |
| R709 | 1-246-680 | 2 kΩ | ERD14T | |
| R710 | 1-246-688 | 4.3 kΩ | ERD14T | |
| ※R711 | 1-246-673 | 1 kΩ | ERD14T | |
| | 1-246-675 | 1.2 kΩ | ERD14T | |
| | 1-246-677 | 1.5 kΩ | ERD14T | |
| | 1-246-679 | 1.8 kΩ | ERD14T | |
| | 1-246-680 | 2 kΩ | ERD14T | |
| | 1-246-681 | 2.2 kΩ | ERD14T | |
| R712 | 1-246-665 | 470 Ω | ERD14T | |
| R713 | 1-207-019 | 3 Ω | ± 10% | RW¼RL wire wound |
| R714 | 1-207-019 | 3 Ω | ± 10% | RW¼RL wire wound |
| R715 | 1-246-660 | 300 Ω | ERD14T | |
| R801 | 1-246-688 | 4.3 kΩ | ERD14T | |
| R802 | 1-246-672 | 910 Ω | ERD14T | |
| R803 | 1-246-673 | 1 kΩ | ERD14T | |
| R804 | 1-246-666 | 510 Ω | ERD14T | |
| R805 | 1-246-666 | 510 Ω | ERD14T | |
| R806 | 1-246-660 | 300 Ω | ERD14T | |
| R807 | 1-248-691 | 5.6 kΩ | | |
| R813 | 1-246-631 | 18 Ω | ERD14T | |
| R814 | 1-246-687 | 3.9 kΩ | ERD14T | |
| R815 | 1-207-091 | 6.8 Ω | RW½RL wire wound | |
| R816 | 1-207-015 | 2 Ω | RW¼RL wire wound | |
| R901 | 1-202-642-31 | 750 kΩ | ± 10% | RC½ composition |
| R902 | 1-207-054 | 3.9 Ω | ± 10% | RW3 wire wound |

※to be selected

| Ref. No. | Part No. | Description |
|---|---|---|
| VR301 | 1-221-998 | 500 Ω–B adjustable (AGC) |
| VR501 | 1-222-506 | 1 kΩ–E variable (CONTR) |
| VR502 | 1-222-505 | 250 kΩ–B variable (BRT) |
| VR551 | 1-221-822 | 5 kΩ–D variable (VOLUME) |
| VR601 | 1-222-510 | 1 kΩ–B variable (HOR) |
| VR701 | 1-222-511 | 2 kΩ–B variable (VER) |
| VR702 | 1-221-390 | 5 kΩ–B adjustable (V. LIN) |
| VR703 | 1-221-390 | 5 kΩ–B adjustable (HEIGHT) |

## MISCELLANEOUS

| | | |
|---|---|---|
| HPF | 1-231-046 | high pass filter |
| DY | 1-451-055-31 | deflection yoke |
| ANT | 1-501-130 | telescopic antenna |
| SP | 1-502-126 | speaker |
| | 1-506-320 | dc plug, 2 pole |
| J551, 552, | 1-507-174-23 | jack, earphone |
| | 1-508-082-61 | connector, 4 pole |
| | 1-508-201-35<br>1-508-202-22 | connector, anode cap. |
| S902 | 1-513-216-14 | switch, charging |
| S1 | 1-514-429-12 | slide switch, antenna |
| | 1-526-083-55 | socket ass'y, picture tube |
| Se | 1-531-024 | selenium rectifier |
| F902 | 1-532-039 | fuse, 2A |
| F902 | 1-532-261 | fuse, 0.3A |
| F903 | 1-532-201 | thermal fuse,, 0.8 A 100 °C (chassis No. SMC-160 □) |
| | 1-534-379-45 | output cable |
| | 1-534-538 | cord, power supply |
| | 1-536-120 | power supply terminal board; 4 pole |
| | 1-536-192 | terminal strip, 2-L-2 |
| | 1-536-277 | terminal strip, L-2 |
| CRT | 8-731-209-99 | picture tube (230DB4) |

*When ordering replacement parts, you should use PART NUMBER listed on the Parts Lists or shown in the EXPLODED VIEW. The reference number should not be used for ordering purposes.*